Records Responsive to EPA-2017-007542

Please note, copying and pasting each link into Google Chrome works best for accessing these records.

- 1. The AUDIO recording of the public meeting (via teleconference) held by the Office of Air and Radiation (OAR) on April 24, 2017.
 - a. Transcription of the OAR Meeting: https://www.regulations.gov/document/EPA-HQ-OA-2017-0190-13898
- 2. The AUDIO recording of the two public meetings held by the Office of Chemical Safety and Pollution Prevention about Toxic Substances Control Act (TSCA) (held 9 AM noon) and lead (held 1 4 PM) on May 1, 2017.
 - a. Transcription of the TSCA Meeting: https://www.regulations.gov/document/EPA-HQ-OA-2017-0190-22478
 - b. Transcription of the Lead Meeting: https://www.regulations.gov/document/EPA-HQ-OA-2017-0190-22477
- 3. The AUDIO recording of the Pesticide Program Dialogue Committee (PPDC) meeting held by the Office of Chemical Safety and Pollution Prevention about pesticides from 8:30 noon on May 4, 2017.
 - a. Transcription of the PPDC Meeting Day One: Pages 2-239, below.
 - b. Transcription of the PPDC Meeting Day Two: Pages 240-366, below.
- 4. The AUDIO recording of the public meeting held by the Office of Land and Emergency Management (OLEM) on May 9, 2017
 - a. AUDIO File of the OLEM Meeting: https://www.regulations.gov/document/EPA-HQ-OA-2017-0190-29466

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5	UNITED STATES
6	ENVIRONMENTAL PROTECTION AGENCY
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9	PESTICIDE PROGRAM DIALOGUE
10	COMMITTEE MEETING
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13	DAY ONE - MAY 3, 2017
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18	Conference Center - Lobby Level
19	2777 Crystal Drive
20	One Potomac Yard South
21	Arlington, VA 22202
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1	PROCEEDINGS
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3	MR. KEIGWIN: Welcome, everybody. Good
4	morning. Thanks for coming. We've got a very busy
5	day ahead of us, so we look forward to the
6	discussions.
7	I first want to introduce to everybody Wendy
8	Cleland-Hamnett. She's the Acting Assistant
9	Administrator for the Office of Chemical Safety and
10	Pollution Prevention. She has a couple of welcoming
11	remarks.
12	MS. CLELAND-HAMNETT: Thanks, Rick, and good
13	morning, everyone. I'm really happy to be here to
14	welcome you all to this PPDC meeting. As Rick said,
15	my name is Wendy Cleland-Hamnett. My position of
16	record in the Office of Chemical Safety and Pollution
17	Prevention is Principal Deputy Assistant
18	Administrator, which is a career position.
19	I'm the Acting Assistant Administrator now,
20	presumably until we get a presidential appointee in
21	the Assistant Administrator position. So, I've been
22	doing this since January 20th, or 21st, right after
23	Jim Jones left. I just started as the Principal DAA
24	back last October 1st. But I've worked in the Office
25	of Chemical Safety and Pollution Prevention since 2004

- 1 this round. I had worked in the office way back when
- 2 at the beginning of my EPA career.
- 3 Before I became the DAA last October, I was
- 4 the Office Director for the chemical side of the
- 5 office. So, I worked on TSCA reform and implementing
- 6 the older version of TSCA prior to that. So, I am
- 7 familiar with the pesticides program, although I am
- 8 learning a lot. Have been learning a lot since last
- 9 October about some of the specific issues and projects
- 10 that people in the OPP have been working on.
- 11 It's really been a great experience meeting
- 12 the great people who work here, the management team,
- learning the issues, meeting many of you and your
- 14 colleagues in the stakeholder community. So, I've
- 15 really enjoyed this, and I look forward to continuing
- 16 to work in this area as acting and then, hopefully
- before too long, back as the Deputy Assistant
- 18 Administrator. So, again, welcome.
- 19 I actually have attended a few PPDC meetings
- 20 before when I was Office Director in the toxics
- 21 program. I came to a few to see how you all work
- 22 together, because we have thought about creating a
- 23 similar kind of group for the chemicals program, once
- 24 we get our framework together to start implementing
- 25 the reforms to TSCA. I think a couple of times since

- 1 then I've been to the PPDC, but the first time in this
- 2 particular role.
- 3 I just think that you play a very critical
- 4 part in what the pesticides program does.
- 5 Transparency is very important, hearing from all of
- 6 the stakeholders who have an interest in the
- 7 pesticides program on behalf of your sort of
- 8 constituencies that you represent, formally or
- 9 informally, and also just on behalf of the American
- 10 public in terms of protecting human health and the
- 11 environment, protecting the food supply, public
- 12 health, all of the things that -- the products that we
- work on here in the pesticides program are meant to
- 14 provide to the American public, as well as protecting
- 15 human health and the environment.
- I know that it's a huge time commitment to
- 17 be on a committee like this, to prepare, to come to
- 18 the meetings, to follow up from the meetings, to be on
- 19 the working groups, and so forth. So, I can't tell
- you how much I appreciate that and Rick and the people
- in the program appreciate that.
- So, one of my goals during this period that
- 23 I'm the Acting Administrator is to make sure that we
- keep doing what we need to do, that we keep focused on
- 25 the mission here in pesticides on the chemical side,

- 1 that we keep, you know, the registration process
- 2 moving along, the registration review process moving
- 3 along, the work on the science moving along, while we
- 4 are helping the new leadership in the Agency to
- 5 transition in and figure out what they need to focus
- on, want to focus on, and so forth.
- 7 So, I am here to help with that.
- 8 Unfortunately, I won't be able to stay with you
- 9 through the day today, but if you don't know where to
- 10 find me, Rick can tell you where to find me. So, you
- 11 know, I'm open to e-mails, phone calls, meeting
- 12 requests, and so forth. If any of you would like to
- follow up on particular issues, I am happy to do that,
- 14 as I know the folks over here in the pesticides
- 15 program are as well.
- 16 So, if that does it, thank you so much. I
- 17 look forward to hearing what you're all talking about.
- 18 I'll try to pop back over here today or tomorrow to
- 19 catch up on what's going on, but I'll also get filled
- in by folks here. So, thanks very much. Hope you
- 21 have a good day and get to enjoy the outdoors at lunch
- 22 time. Nice weather for DC itself. Two weeks a year
- 23 we get this kind of weather. Thanks very much.
- MR. KEIGWIN: Thanks, Wendy.
- 25 So, again, welcome to everybody. We do very

- 1 much appreciate all the work that you all put in
- 2 outside as part of the work groups. Having you all
- 3 give us advice on important matters facing the program
- 4 I think really helps us to advance our work working
- 5 with you to, as Wendy said, protect public health and
- 6 the environment.
- 7 Before we go around, I want to give folks a
- 8 few updates on what has been happening in the office
- 9 since our last meeting. But I first want to recognize
- 10 some of the people on the committee who this will be
- 11 most definitely their last meeting, because some of
- 12 you are term limited as part of the FACA requirements.
- So, among those are Cheryl Cleveland, Beth
- 14 Law, who wasn't able to participate today, Ray
- 15 McAllister, Jake Vukich, Virginia Ruiz, Valentin
- 16 Sanchez, Captain Calvert, who is not here today, Mike
- 17 Kashtock, who is not here today, Robyn Gilden, Marc
- 18 Lame, Wayne Buhler, Tom Delaney, Doug Hanks, who I
- 19 believe is going to participate over the phone, and
- 20 Gabrielle Ludwig. So, thank you all again.
- 21 Those people have been on the committee now
- I think for almost six years, so we really appreciate
- 23 all the efforts and all of your contributions to the
- 24 work here. I know, even though you won't be on the
- 25 committee for the foreseeable future, we'll still be

- 1 hearing from you and contributing in other ways.
- 2 Membership did close for the next cycle of
- 3 the PPDC on April 21st. We had a very high interest
- 4 in participating on the committee moving forward. So,
- 5 thanks to the current members who were eligible to
- 6 reapply for reapplying. We're going through the
- 7 process now of, you know, reviewing the applications.
- 8 We'll make our recommendation to Wendy. Then Wendy
- 9 will take the OCSPP recommendation forward within the
- 10 Agency. Hopefully, in time for our fall meeting,
- 11 we'll have the new PPDC up and running. So, that's
- 12 the update there.
- I want to quickly go through the agenda.
- 14 This one is obviously a little bit different than
- other PPDC meetings because we're trying to squeeze a
- lot of things into day one, so that we can use our
- session tomorrow to focus on the regulatory reform
- 18 efforts as part of implementing President Trump's
- 19 executive order on the regulatory agenda. So, we're
- 20 going to move pretty fast today.
- 21 So, we'll first soon go around for
- introductions of all the PPDC members. Then we have a
- 23 session on pollinator protection. We have a session
- on biotechnology. We'll break for lunch. Then, in
- 25 the afternoon, we'll provide an update on some of our

- 1 efforts to implement some 21st century toxicology
- 2 techniques.
- 3 We have a short Q&A session on some topics
- 4 that we had heard from you all that you wanted to hear
- 5 some updates from us. Then we'll have a report back
- 6 after the break from the incidents workgroup. Then
- 7 we'll wrap things up with a presentation from Arnold
- 8 and his team on vector management and Zika. Then
- 9 there will be an opportunity for public comment at the
- 10 end.
- 11 As I mentioned, tomorrow we will do our
- 12 regulatory reform meeting. There will be a different
- 13 configuration for tomorrow's meeting. We're not going
- 14 to sit around a hollow square. It will be more of a
- 15 theater style because we wanted to be able to allow as
- 16 many people to participate as possible. But for PPDC
- 17 members, we'll have some space reserved for you all up
- 18 front.
- 19 So, the first half of tomorrow's meeting
- 20 will be you all, and then the second half will be from
- 21 the public. I think we have upwards of 15 or 20
- 22 people from the public who will be participating with
- 23 public comments either in person or over the phone.
- 24 We are starting a little bit early tomorrow.
- 25 We're starting at 8:30. I know how challenging it is

- 1 to get through security in this building, and with
- even more people being here. I think we have several
- 3 hundred people who are registered to participate in
- 4 person or observe in person. We'll remind you at the
- 5 end of the day, but please plan accordingly for
- 6 tomorrow so that we can get through all the public
- 7 comments.
- 8 So, in terms of what's been going on in the
- 9 Office of Pesticide Programs since our last meeting --
- 10 I think the first thing I should probably point out is
- 11 the departure of Jack Housenger, who is a huge loss to
- 12 OPP. I think Arnold and I knew how much he did, or
- 13 thought we knew how much he did. Now that he's gone,
- 14 we appreciate everything that he did even more because
- now we're trying to divide it up amongst the two of
- 16 us. So, Jack carried a very heavy load for this
- 17 program, and he is sorely missed.
- 18 Before he left, however, he left us in a
- good place. We selected three new permanent division
- 20 directors for the Office of Pesticide Programs. I
- just wanted to introduce those people to you all.
- 22 Marietta Echeverria is now the Director of
- 23 the Environmental Fate and Effects Division. Wynne
- 24 Miller is now the Director of the
- 25 Biological and Economic Analysis Division. Mike

- 1 Goodis is now the Director of the Registration
- 2 Division. So, thanks. It's great to have the three
- 3 of them in their new positions.
- 4 We've also been going through -- and I won't
- 5 go through all of these, but as part of trying to
- 6 rebuild the management team and to provide some
- 7 opportunities for career growth and advancement, we've
- 8 been rotating a number of people around the program
- 9 into the Deputy and the Associate Division Director
- 10 slots.
- 11 So, if you look at the org chart in your
- 12 packet, you'll see a lot of names that you're probably
- familiar with, but you're like why is that person
- 14 there? I'm not used to them being there. Part of it
- is to rebuild our capacity and get people experiences
- 16 in different parts of the program. I think that's
- been a good effort here for them and for us.
- 18 On the registration front, since our last
- 19 meeting, we have registered nine new active
- ingredients. That's about half of where we expect to
- 21 be by the end of the year, three in the Registration
- Division, five in the Biopesticides and Pollution
- 23 Prevention Division, and one in the Antimicrobials
- Division. We're on track to complete the other 10 or
- so decisions by the end of this year.

1 On the registration review side, by our next 2 meeting, we likely will have hit a very significant 3 milestone in the re-evaluation program where we will have by then opened all of the dockets for all of the 5 active ingredients going through registration review. 6 We're making very good progress on the scientific 7 evaluation side. 8 At this point, and I'll focus on 9 conventional chemicals, we've issued about half of the 10 draft risk assessments for public comment that we 11 would expect to issue as part of registration review. 12 We've issued about 40 percent of the proposed 13 decisions that need to come forward as part of completing the re-evaluation program by 2022. 14 15 So, there's been a lot of effort across the 16 program to get those things done, and a lot of great 17 input from you all as we have public comment periods on the draft risk assessments and the proposed 18 19 decisions. 20 Some other highlights to note, we're working 21 with our colleagues in OPPT, as well as FDA and USDA. 22 Recently received some advice from the National Academy of Sciences relative to biotechnology and how 23

to prepare ourselves for some of the new tools and

some of the new technologies coming forward.

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- This was an important piece of an effort
- 2 launched in the last administration, and we suspect
- 3 we'll continue as we move forward and as these
- 4 technologies continue to be developed as part of the
- 5 updates to the coordinated framework and our long term
- 6 strategy for biotechnology.
- 7 Probably, for our next meeting, we'll be in
- 8 a position to provide you all with an update on the
- 9 SmartLabel effort. I think we've talked about that
- 10 initiative here in the past, and we really think this
- is an important effort for us to modernize pesticide
- 12 labeling, not only for us but for the users of these
- products so that they have accurate information in a
- more digestible format so that these products are used
- in a way that they're intended.
- 16 We'll get an update today on the pollinator
- 17 efforts and the work that the workgroup has been doing
- 18 on informing metrics for measuring the success of the
- managed pollinator protection plans.
- 20 And then, finally, I should note the work
- 21 that we've been doing with the Services on the pilot
- 22 set of chemicals for Endangered Species Act biological
- evaluations and biological opinions. A lot of great
- 24 work that's been going on with the Services and with
- 25 input from USDA to help advance the science in that

- 1 area.
- 2 Let me stop there. Maybe we can go
- 3 around to introduce who is here, and then we'll go to
- 4 the phone for the PPDC members. I'll start to my
- 5 left.
- 6 MR. LAYNE: Hi, good morning, everyone,
- 7 Arnold Layne, Deputy Office Director, Pesticide
- 8 Programs.
- 9 MR. STELL: Hi, good morning, Fred Stell
- 10 from the Armed Forces Pest Management Board.
- 11 MR. TAYLOR: Good morning, Donnie Taylor
- 12 with the Ag Retailers Association here in Washington,
- 13 D.C.
- 14 MS. FLEESON TROSSBACH: I'm Liza Fleeson
- 15 Trossbach, and I'm representing the Association of
- 16 American Pesticide Control Officials, or AAPCO.
- 17 MR. FREDERICKS: Jim Fredericks with the
- 18 National Pest Management Association.
- MS. CLEVELAND: Cheryl Cleveland, BASF, RTP.
- 20 MS. PALMER: Cynthia Palmer, American Bird
- 21 Conservancy.
- MR. GRAGG: Good morning, Richard Gragg,
- 23 Florida A&M University, School of the Environment.
- 24 MS. JAIN: Good morning, Komal Jain,
- 25 American Chemistry Council, the Biocides Panel.

- 1 MR. BUHLER: Wayne Buhler, and I'm serving
- on this board as the overly enthusiastic entomologist
- 3 from the East Region to counter my western colleague.
- 4 I'm with the Pesticide Safety Education Specialists at
- 5 NC State University and representing the American
- 6 Association of Pesticide Safety Educators.
- 7 MS. WILSON: Hi, I'm Nina Wilson with Gowan
- 8 Company representing the biological products industry.
- 9 MR. GJEVRE: Good morning, Eric Gjevre,
- 10 Tribal Pesticide Program Council.
- 11 MS. BURD: Lori Ann Burd, Center for
- 12 Biological Diversity.
- 13 MR. VUKICH: Good morning, Jake Vukich with
- 14 DuPont Crop Protection in Wilmington, Delaware.
- 15 MR. DELANEY: Tom Delaney, Georgia Urban Ag
- 16 Council, representing the landscape industry.
- 17 MS. GILDEN: Robyn Gilden with the
- 18 University of Maryland School of Nursing and also the
- 19 Alliance of Nurses for Healthy Environments.
- MS. HOYLE: I'm Sarah Hoyle with the Xerces
- 21 Society.
- 22 MR. WHITTINGTON: Andy Whittington,
- 23 Mississippi Farm Bureau Federation.
- MR. COY: Steven Coy, American Honey

- 1 Producers Association.
- 2 MS. LIEBMAN: Good morning, Amy Liebman from
- 3 Migrant Clinicians Network.
- 4 MS. HARRIOTT: Nichelle Harriott, Beyond
- 5 Pesticides.
- 6 MS. BISHOP: Pat Bishop, People for the
- 7 Ethical Treatment of Animals.
- 8 MR. SANCHEZ: Valentin Sanchez with the
- 9 Oregon Law Center.
- MR. MCLAURIN: Good morning, my name is
- 11 Allen McLaurin. I'm actually a cotton producer from
- 12 North Carolina, but I represent the National Cotton
- 13 Council.
- 14 MR. MCALLISTER: Ray McAllister with Crop
- 15 Life America.
- MS. LUDWIG: Gabrielle Ludwig, Almond Board
- 17 of California.
- 18 MR. LAME: Marc Lame with Indiana University
- 19 representing the National Environmental Health
- 20 Association.
- MS. SELVAGGIO: Sharon Selvaggio with the
- Northwest Center for Alternatives to Pesticides.
- MS. GOUGE: Good morning, Dawn Gouge, overly
- 24 enthusiastic entomologist from the western side of the
- continental U.S. I work on public health pests.

- 1 MR. KUNKEL: Hi, I'm Dan Kunkel with the IR4
- 2 minor use program. We're located at Rutgers
- 3 University.
- 4 MS. RUIZ: Virginia Ruiz, Farmworker
- 5 Justice.
- 6 MR. ALARCON: Walter Alarcon representing CDC,
- 7 the SENSOR pesticide program.
- 8 MS. SHULTZ: Gina Shultz, U.S. Fish and
- 9 Wildlife Service.
- 10 MS. KUNICKIS: I'm Sheryl Kunickis. I'm the
- 11 director in the Office of Pest Management Policy at
- 12 the US Department of Agriculture.
- MR. KEIGWIN: I think we have a few members
- of the PPDC who are participating via the phone. So,
- why don't we go to them. Are there PPDC members
- 16 participating via phone? Could you introduce
- 17 yourself?
- 18 MR. BENNETT: Steve Bennett, Consumer
- 19 Specialty Products, on behalf of Beth Law.
- 20 MR. HANKS: Doug Hanks, National Potato
- 21 Council.
- 22 MS. LIANG: Charlotte Liang, U.S. Food and
- 23 Drug Administration.
- MS. COLOPY: Michele Colopy,
- 25 Pollinator Stewardship Council.

- 1 MR. KEIGWIN: We're only asking for
- 2 introductions from PPDC members. So, I think the
- 3 other person that we thought might be participating is
- 4 Louis Jackai. Are you on the phone?
- 5 (No verbal response.)
- 6 MR. KEIGWIN: Okay, perhaps he'll join us a
- 7 little bit later.
- 8 A few housekeeping issues before --
- 9 registration desk. If you haven't done that yet,
- 10 please do so at the break. We need to have that for
- 11 purposes of the FACA requirements for the meeting.
- 12 This is the same mic system that we've had
- 13 now for the past couple of meetings. So, just a
- 14 reminder, the little red button, if you see it red,
- 15 that means it's on. When you're done speaking, please
- 16 turn it off. I think I have the ability to turn them
- all off, but I'd rather not have to do that.
- 18 Turn your tent cards up when you want to
- speak, and we'll try to get to as many of those cards
- 20 as we can. The teleconference line is open, so
- 21 hopefully folks on the phone are hearing this well.
- 22 Another reason why when you are speaking to use the
- 23 mic, so that the people on the phone can hear you. We
- do have it set up on a global mute and we'll be
- 25 controlling the muting and the unmuting. For people

- 1 that do want to speak who are PPDC members, we can
- 2 unmute your line so that you can speak when we go
- 3 around for the discussion within the PPDC.
- 4 For members of the public that have joined
- 5 us today, there is a 15-minute public comment session
- at the conclusion of today's meeting. Today's comment
- 7 period is to focus on the topics on today's agenda.
- 8 Anything related to the regulatory reform pieces is
- 9 for tomorrow's discussion. If there's a member of the
- 10 public that wants to make a comment today, please sign
- 11 up at the registration desk out in the lobby here.
- 12 Then, one last thing for fire code purposes,
- in the event of an emergency, please note that there
- is an emergency door at the front of the room here.
- 15 And then there are four exits out into the lobby from
- 16 this room as well.
- 17 Any questions?
- 18 (No verbal response.)
- MR. KEIGWIN: So, why don't I ask Mike to
- 20 come forward and lead our first session on
- 21 pollinators.
- MR. GOODIS: Good morning, my name is Mike
- 23 Goodis. I'm the Director of the Registration
- Division, Office of Pesticide Programs. And sitting
- 25 next to me is?

- 1 MS. GUILARAN: Hi, I'm Yu-Ting Guilaran,
- 2 Director of the Pesticide Re-evaluation Division.
- 3 MR. GOODIS: So, this segment, I think it's
- 4 slated for an hour to talk about pollinators. I think
- 5 we're going to start off with just really an update or
- 6 report out on some recent activities from EPA on
- 7 pollinator-related actions, specifically the acute
- 8 mitigation policy, the risk assessment for neonics.
- 9 I'll talk a little bit about pollinator protection
- 10 plans, too.
- 11 We want to reserve most of the time for the
- managed pollinator protection plan workgroup to report
- back on the status and the approach that they're
- 14 taking in providing recommendations to the Agency,
- 15 looking again at metrics for evaluating managed
- 16 pollinator protection plans.
- 17 The group had started back in October.
- 18 We've been meeting monthly now. I can say I think the
- 19 workgroup is working very well together. I think,
- again, they have a proposed approach, and I think
- 21 we're looking forward to getting feedback from the
- 22 committee and the workgroup on the approach and
- whether it's the right direction or if there are other
- factors that should be considered. So, there will be
- a presentation on that topic, you know, on the second

- 1 half of our segment here.
- So, I'll start things off. So, the main
- 3 topics, again we'll just talk about some of the
- 4 activities, our commitments from the National
- 5 Pollinator Health Strategy, we'll talk about managed
- 6 pollinator protection plans, the acute mitigation
- 7 policy, and then we'll finish up with the status of
- 8 the neonic re-evaluation reviews.
- 9 So, as many of you probably already know,
- 10 it's been about two years now that the federal
- 11 agencies have put together a strategy. As part of
- 12 that, the EPA had various commitments as far as that
- 13 strategy in promoting pollinator health, namely
- looking at ways to better assess the effects of
- pesticides on pollinators. Also looking at expediting
- 16 reviews on new products to help protect pollinators
- 17 also. Also, pollinator habitat protection and
- development. But also in there there were commitments
- of looking at reducing potential exposures to
- 20 pollinators from pesticide applications and also
- 21 engaging states and tribes in developing pollinator
- 22 protection plans.
- Some of the recent activities that are
- 24 ongoing, just notably, we're continuing to ask for
- 25 pollinator data through data call-ins for our re-

- 1 evaluation program. Recently, I think it was earlier
- 2 this year, the EPA hosted a workshop here in this
- 3 building with stakeholders and looking at pollinator
- 4 effects on non-Apis or non-honeybees.
- 5 As part of the ongoing efforts, we're still
- 6 using the -- and this is an evolving science too, that
- 7 we're using the pollinator risk assessment framework
- 8 and looking at potential effects to pollinators from
- 9 use of pesticides under our re-evaluation, and also
- 10 our registration regulatory programs.
- 11 One area we're also taking a closer look at
- is the variability of the toxicity for residues on
- 13 foliage study. This is the RT25 data. We'll be
- talking a little bit more about that later in the
- 15 acute mitigation policy. But we're looking at finding
- 16 ways to better utilize that data and to make it more
- 17 specific for its intended uses.
- So, managed pollinator protection plans, or
- 19 MP3s, again, this is something the Agency had
- 20 committed to in the very beginning. This was
- 21 something that again was identified from some states
- 22 that had taken this initiative earlier on in working
- 23 with stakeholders in their states to develop
- 24 pollinator protection plans. We thought it was a
- 25 great idea and committed to working with states and

- 1 tribes to help other states and other areas, tribal
- 2 areas, to also develop pollinator protection plans.
- We hosted a symposium about a year ago here
- 4 in Washington, D.C. for various stakeholders, states,
- 5 tribal representatives, but also others to share
- 6 experiences and lessons learned and provide
- 7 information and tools for developing pollinator
- 8 protection plans.
- 9 As you know, later last year, a workgroup
- 10 was formed under the PPDC for providing
- 11 recommendations to the Agency on how we can better
- 12 evaluate or measure the effectiveness of these state
- plans more at a national scale, as opposed to just
- 14 looking at each plan individually.
- 15 This was an area that I think -- again, we
- 16 weren't sure what the best tools were for doing that,
- and we're really looking forward to the input for this
- 18 workgroup and for the committee to give us some
- 19 recommendations.
- So, the acute mitigation policy, as many of
- 21 you probably know, this is something I worked on.
- 22 Again, it was a commitment coming out of the strategy
- 23 that was released a couple years ago. The policy
- 24 itself was finalized and released in January this
- 25 year. We had a proposed policy, in which we received

- a large number of comments that were considered. We
- 2 made adjustments based on the comments. We thought
- 3 the information we received was very informative.
- In the changes that we made in the policy,
- 5 it was more towards making the restrictions on the use
- of pesticides more quantitative, more risk based. So,
- 7 based on the application rate and the toxicity of the
- 8 compound, if a certain use pattern exceeded the level
- 9 of concern, then we would impose restrictions on
- 10 labels for products under certain conditions. That's
- in fields where pollinators are being brought in for
- 12 commercial pollination services and the crop is in
- 13 bloom. Those products will be restricted for use
- 14 during those periods.
- 15 We also identified, based on the feedback we
- 16 got from the comments, that there needed to be some
- 17 flexibility about that overall restriction. So, we
- 18 did look at areas where -- and we received quite a few
- 19 comments on the reliance of, again, lower residual
- 20 toxicity data out in the field, what we call RT25
- 21 data. We thought that that was, you know, again,
- 22 helpful information for growers, and it was being
- 23 pretty widely utilized, from the feedback we received.
- 24 So, we thought that was an opportunity to allow some
- 25 flexibility for growers to use products when they

- 1 really needed it.
- 2 Also looking at some crops that are
- 3 indeterminate bloom or long-term blooming periods,
- 4 allowing for some flexibility use in products based on
- 5 the potential impacts of just an overall restriction
- for any use of pesticide products.
- 7 Here is the basic language that we are
- 8 looking to put on the labels that's included in the
- 9 final policy document. I won't read the whole thing,
- 10 but as indicated, for crops that require pollination
- 11 services where bees are being brought in for
- 12 pollination services and the crop is under bloom for a
- foliar application, we're looking at restricting the
- 14 use of toxic compounds, toxic products that are listed
- 15 within the policy document.
- 16 Under those conditions where -- again, the
- main words are here, foliar application of this
- 18 product is prohibited to a crop from onset of
- 19 flowering until flowering is complete when bees are
- 20 under contract for pollination services. Again, we do
- 21 allow some flexibility, and I'll talk about that here
- in a moment.
- 23 Again, depending on the application rate of
- those products and if they actually exceed the level
- of concern, again those products would be prohibited.

- 1 If they don't exceed our level of concern, again,
- 2 based on the combination of toxicity and the
- 3 application rate, those products will be allowed to be
- 4 used under these conditions.
- 5 Again, as I mentioned earlier, there were a
- 6 couple areas that we thought was appropriate to allow
- 7 some flexibility around that overall prohibition.
- 8 One, again, was reliance on lower residual toxicity
- 9 compounds. So, if a product was identified what we're
- 10 calling an RT25 of six hours or less, meaning that the
- 11 toxicity of the compound basically reduces to a level
- 12 that's acceptable within that six-hour period, these
- 13 products can be used from two hours before sunset and
- 14 up to eight hours before sunrise. So, basically, it's
- a nighttime application to allow for the toxicity to
- 16 reduce to a lower acceptable level and allow for the
- 17 pesticide products to dry before bees may be visiting
- 18 the blooming field.
- The other area, as I mentioned, was for
- longer term blooming crops or indeterminate blooming
- 21 crops. Again, we received a lot of information on
- some of those crops that not allowing certain products
- 23 would have a significant economic impact on the
- 24 harvesting of those crops. So, we thought it was
- 25 appropriate for those particular crops to allow

- 1 products under a nighttime application. Or, if the
- temperature is below 50 degrees, we recognize that
- 3 bees generally aren't visiting the field during that
- 4 time.
- 5 One other change that we made was regarding
- 6 the environmental hazard statement. This was comments
- 7 received from the state lead agencies. Some of the
- 8 language that was included on some products in the
- 9 environmental hazard section, which is more an
- 10 advisory section, was too broad and was being too
- 11 descriptive. It was creating potential confusion in
- 12 the field and also difficulties in enforcement in the
- 13 field as well.
- 14 Based on the feedback and recognizing that
- if states are having difficulty enforcing the
- language, it's probably not the best language to be
- 17 having on the label. So, we did make some adjustments
- 18 to the label, but keep in mind we are putting the
- 19 language that I just mentioned earlier to be in the
- 20 directions of use.
- So, this language basically is again more
- 22 advisory to letting the growers know that these
- 23 compounds are potentially toxic and that they really
- 24 need to follow the labeling and the directions for use
- 25 to make sure to minimize exposure of the pesticide use

- 1 to pollinators.
- So, with that, I'll turn it over to Yu-Ting,
- 3 and she can talk about the latest on the neonics.
- 4 MS. GUILARAN: Good morning. How is
- 5 everybody doing? Good? Excellent.
- 6 So, I just wanted to give you an update on
- 7 where things are with the neonic re-evaluation. So,
- 8 we're really talking about the four neonics,
- 9 imidacloprid, clothianidin, thiamethoxam, and
- 10 dinotefuran. So, as folks know, the pollinator only
- 11 analysis was released January 2016. We received a lot
- 12 of comments. I have been going through them. Just
- 13 kind of going forward a little bit, we also released
- 14 aquatic risk assessments associated with imidacloprid
- 15 earlier this year, along with the two other neonics,
- 16 clothianidin and thiamethoxam.
- 17 I know folks have been wondering where is
- 18 that Federal Register notice. So, we're still working
- on that with our Office of Policy. As folks know,
- 20 through transition, there are times that the new
- 21 administration wants to take a look at what we have
- 22 put out there. So, that is still in that process.
- Yesterday, we had a really good discussion
- 24 with Office of Policy. Hopefully, people will see the
- 25 Federal Register notices soon. In the meantime, you

- get a preview of what the draft risk assessment is all
- 2 about and can start taking a look at our assessment
- 3 and prepare your comments. So, we anticipate a 60-day
- 4 comment period once we have the Federal Register
- 5 notices out there.
- 6 Dinotefuran is the same position, which is
- 7 along with all the other three neonics. A tier 1
- 8 pollinator risk assessment has been posted and will be
- 9 released for comment through the Federal Register
- 10 notices as well.
- 11 So, what are we seeing from these
- 12 preliminary risk assessments? We see some potential
- on-field risk for some use patterns. Some are low,
- 14 really depending on how attractive the crops are and
- 15 the different practices. The seed treatment uses tend to
- 16 be low risk. Some potential on-field risk for some use
- 17 pattern is still uncertain.
- So, we're anticipating some more data coming
- in this year. Have some residue data coming in and
- 20 also feeding studies. So, both are critical
- 21 information for us to better understand through these
- 22 tier 2 studies that is there really risk associated
- with these categories, the use pattern that's an
- 24 uncertain category.
- There are some on-field risks that we have

- 1 already seen with some use patterns. A couple of the
- ones that jump out, cotton and citrus, so I'll talk on
- 3 the next slide a little bit about where we are with
- 4 that.
- 5 Basically, our overall strategy on risk
- 6 mitigation is really to engage the stakeholder as much
- 7 as possible to really better inform us of not only the
- 8 risk, give us feedback on the risk, but also the
- 9 benefit of the chemical. So, as folks know, FIFRA is
- 10 a risk benefit balancing statute, so we
- 11 definitely need a lot of the information on the
- 12 benefits to really kind of holistically look at that
- 13 and also the risks associated with these pesticides.
- So, there are a few things that are happening
- 15 right now that we're reaching out to, specifically the
- 16 citrus and cotton industries. So, we are talking to
- 17 both Florida Fruits and Vegetables Association and
- 18 also -- so, that's in May. And then we also have a
- 19 crop tour that's coming up for California, which we
- 20 will also talk to the citrus growers there. We also
- 21 have something set up with the Cotton Council.
- So, all of these are an effort to really
- 23 understand some of the uses that are happening out
- there. So, we want to make sure that we understand
- 25 the implementation and how things are being used, and

- 1 also the benefit of the different chemicals.
- So, in general, this is kind of a summary of
- 3 where things are and where we see that things will go.
- 4 So, for the rest of 2017, first we'll have human
- 5 health risk assessment for imidacloprid. And then, for
- 6 the rest of the three, we'll have the preliminary
- 7 pollinator assessments out there. Then we'll have the
- 8 human health associated with those three as well. And
- 9 then the other taxa other than the pollinators.
- In 2018, our focus is really based on data
- 11 that we receive in 2017 to update and revise as
- 12 necessary and hopefully finalize these risk
- assessments. And with an eye towards 2018/2019, to
- 14 have the different risk mitigation preliminary
- decisions, proposed decisions, out.
- 16 So, part of what we're contemplating too is
- 17 usually our benefit assessment goes along with a
- 18 proposed interim decision. For the neonics, it's
- 19 probably a good idea -- and we've been working with
- our Biological and Economic Analysis Division -- to
- 21 work on the benefit assessment for the different
- 22 neonics. So, we will aim to also have that
- information available so people can provide us
- 24 feedback so that we can take that into consideration
- as we're contemplating about the mitigation strategy.

- 1 MR. GOODIS: So, I think we're on track here
- 2 right now. I think we have a few minutes to maybe
- 3 take some questions on mine and Yu-Ting's talk before
- 4 we ask the metrics workgroup to report out.
- 5 MR. KEIGWIN: So, let's start with Lori, and
- 6 then Marc, and then I think that's Nichelle's card up.
- 7 MS. BURD: Thanks. So, you had proposed
- 8 acute risk mitigation regulations, but instead issued
- 9 a policy, which of course does not carry weight of
- law, and growers are free to ignore. Can you explain
- 11 why you backed away from the regulations?
- MR. GOODIS: Well, we didn't actually
- propose a regulation. I mean, it was a policy that
- 14 was proposed initially. Again, this was a
- 15 finalization of the policy.
- We are intending on moving forward with
- 17 letters to registrants for the products that were
- listed in the policy to start implementing, you know,
- 19 the label language changes that I just described. You
- 20 know, that's being finalized here within the program,
- and it still needs to go through senior management
- review before that can be released. I don't have
- exact timing on that.
- I recognize there was some confusion about
- 25 whether it was referred to as a regulation or not, but

- 1 it was strictly a policy, is what was proposed.
- MS. BURD: Okay, just to be clear, the
- 3 Federal Register described it as a regulation.
- 4 MR. KEIGWIN: So, I realize there was some
- 5 confusion in the Federal Register. It got published
- in the regulation section, but it was clearly
- 7 discussed in the notice announcing the availability of
- 8 the draft policy, that it was a draft policy, and not
- 9 a rule-making.
- 10 Okay, Marc, Nichelle, and then Wayne.
- 11 MR. LAME: Quick comment and then a question
- 12 for clarification. My comment is very short. I
- really appreciate the rigorous work that the Agency
- scientists have put into this. So, good work.
- 15 So, it says on the last page on preliminary
- 16 pollinator risk assessments that the Agency intends to
- 17 engage stakeholders to inform itself. So, could you
- 18 give me -- and I'd like to follow up with this, if
- 19 possible -- name the stakeholders that you're talking
- 20 about?
- MS. GUILARAN: So, currently, we are looking
- 22 at a preliminary risk assessment where certain uses
- 23 are showing risk. So, I named two different grower
- 24 groups. One is citrus, one is cotton. So, those are
- 25 the ones that we have planned. But as always, we will

- 1 work with also our partner in USDA and also different -- we
- 2 have different groups that come in and want to talk to
- 3 us about neonics in general.
- 4 So, we are specifically right now going on
- 5 these crop tours that were originally already planned
- or adding the citrus part to it so we can better
- 7 understand how things are going in California and
- 8 Florida in the citrus. Then we added recently a
- 9 cotton tour as well. Does that answer your question?
- 10 MR. LAME: It does. I just want to make
- 11 sure that actually, you know, beekeepers and consumers
- 12 as well are represented in that list of stakeholders,
- or is that just kind of a if they show up kind of
- 14 thing?
- 15 MS. GUILARAN: We have always had ongoing
- 16 coordination with beekeepers. So, as always, if there
- 17 are things that the beekeepers think that we should
- 18 also make a side visit, we definitely will. We have
- in the past already done so, and we will continue to
- 20 do that as well.
- 21 MR. LAME: Excellent. Consumers obviously
- 22 are the end product of any risk here, you know,
- 23 considering their food source. So, I hope that's at
- least part of it, although I know it is difficult.
- 25 MS. GUILARAN: Right. So, just to be clear,

- we continue to have a transparent process that's
- 2 associated with pesticide re-evaluation. So, anything
- 3 that we determine or the benefit assessment on the
- 4 different neonics and also the proposed interim
- 5 decision, they're all for public comment. So, people
- 6 obviously should take that opportunity as well.
- 7 We have to address every single comment as
- 8 we're making our decision. So, that's another way for
- 9 folks to provide input on how we're doing with our
- 10 risk assessment, how we're doing with our proposed
- interim decision, and are we capturing the benefit
- 12 correctly.
- 13 MR. KEIGWIN: Okay, Nichelle, then Wayne,
- 14 then Cynthia.
- 15 MS. HARRIOTT: Hi. I have two questions.
- 16 The first is your work on non-Apis bee exposures. You
- 17 mentioned that EPA hosted a workshop recently. From
- that workshop, does EPA have a strategy for evaluating
- 19 exposures to non-Apis bees?
- Then, secondly, my other question is you got
- in your acute risk mitigation policy. On one of your
- 22 slides, you're recommending the use of products with
- 23 short residual toxicity times. I'm just wondering
- 24 whether all the chemicals that you considered under
- 25 this policy have RT25 data. If so, where can I find

- 1 that information?
- MS. ECHEVERRIA: Good morning. My name is
- 3 Marietta Echeverria. I'm the director of the
- 4 Environmental Fate and Effects Division. So,
- 5 Nichelle, I'd like to respond to your question
- 6 regarding strategy for non-Apis bees.
- 7 Yes, it's correct. We held a workshop in
- 8 January where we had academic scientists, government
- 9 scientists, industry scientists, international
- 10 scientists come together and work through the
- differences between exposure routes for honeybees
- 12 relative to other non-Apis species.
- 13 So, the next steps from that workshop are to
- do a comparison of exposure routes that our current
- process for honeybees may be missing and make an
- 16 evaluation on whether or not the current process is
- 17 sufficiently conservative to apply to those other non-
- 18 Apis species. So, that's the first step going
- 19 forward.
- On the effects side of things, we are
- 21 continuing to work with OECD and other international
- 22 partners on the development of toxicity testing for
- 23 non-Apis bee species, including bumblebees. So, that's
- 24 where we are with respect to the non-Apis issue.
- 25 With respect to RT25 information, we do not

- 1 have RT25 information for all pesticide products. So
- with the implementation of the policy, the RT25
- 3 exception would only be applied to products that do
- 4 contain those data that we've evaluated and we've
- 5 found acceptable.
- We do have a web site that lists the
- 7 information that we currently have. We're working on
- 8 a process to update that information annually.
- 9 MR. KEIGWIN: Okay, Wayne, then Cynthia,
- 10 then Steven.
- 11 MR. BUHLER: I, too, want to echo Mark, and
- 12 thank you for your work on this. I know decisions
- regarding pollinators are always tricky, challenging.
- One aspect that I just have a quick question
- 15 regarding, the acute risk mitigation policy affecting
- 16 a crop under contract. Has there been consideration
- 17 to like neighboring crops, knowing that bees forage
- 18 two to five miles from the hive? How will that be
- 19 addressed on the label?
- MR. GOODIS: That's a good point. I mean,
- 21 bees just don't stay in one particular area,
- obviously. But again, we're looking at those crops
- 23 where they're under contract for service for
- 24 pollination and those restrictions would apply. But
- 25 that's the area where they're most likely to be and

- 1 the most likely to have exposure.
- 2 Any other applications beyond that scenario,
- 3 we're relying on managed pollinator protection plans
- for beekeepers, and applicators, and land owners to
- 5 have some sort of mechanism to communicate or
- 6 coordinate the applications and minimizing national
- 7 exposure of bees.
- 8 So, that was the general strategy, you know,
- 9 that we had set up before. So, that's where we hope
- or expect that that type of interaction between the
- 11 pesticides and the products would be addressed.
- MR. BUHLER: Thank you.
- 13 MR. KEIGWIN: Okay, Cynthia, then Steven,
- 14 then Sharon.
- MS. PALMER: Hi. So, I have two questions.
- 16 First, with the MP3s, to what extent will EPA guidance
- 17 require that they include birds, butterflies, native
- bees, and other pollinators beyond managed bees?
- 19 Second, with regard to the pollinator risk
- 20 assessments, I think it's great that you're focusing
- on the benefits, and you did some good work on
- 22 soybeans before. I'm just wondering, for the seed
- treatment benefits, for which commodities we can
- 24 expect a similar type of analysis?
- 25 MR. GOODIS: Well, I'll start on the first

- 1 question. Again, the managed pollinator protection
- plans are not mandatory; they're strictly voluntary.
- 3 So, we are encouraging the development of these plans.
- Again, we're partnering with SFIREG and AAPCO and
- 5 other organizations on the development. So, the whole
- 6 concept is to allow the region, the state, or the
- 7 tribe to identify what the particular issue is within
- 8 their state or tribal area or region.
- 9 Based on the stakeholders that they are able
- 10 to gather in that interaction, what are the real
- 11 concerns in that particular area. What's the best way
- 12 to address them and to make potential exposures? So,
- 13 the states and tribes have the flexibility to expand
- 14 beyond managed pollinators. I've seen where through
- 15 revisions of plans, they've broadened the scope in
- some states to include habitat protection as well.
- 17 As far as other pollinators, again that's an
- option if they want to consider it. But again, this
- 19 isn't something that's mandatory. So, it's really up
- to local stakeholders to identify what the priorities
- 21 are.
- MS. GUILARAN: Thank you, Cynthia. So, as I
- 23 was mentioning before with FIFRA being a risk and benefit
- 24 balance, I think we're going to start with the benefit of
- 25 citrus and also cotton to accompany the risks that we have
- seen in some of the assessments.

- 1 MR. KEIGWIN: Okay, so, after these three, I
- 2 think we're going to move on to the next part of the
- 3 pollinator session. Then there will be some
- 4 opportunity for additional questions at that point.
- 5 So, Steven, Sharon, and then we'll wrap up
- 6 with Cheryl.
- 7 MR. COY: I took some notes here. You're
- 8 looking at better ways to use RT25 data, so I applaud
- 9 you with that. I think that will be very helpful.
- 10 The comment about, let's see, the bee
- 11 analysis -- I get so nervous doing this. I don't know
- 12 why.
- So, I just would like to remind you that you
- 14 need to incorporate the impact of moving colonies and
- 15 the effects that the pesticides have on colonies in
- 16 two months, six months down the road as opposed to
- just immediate impacts of a kill when the bee analysis
- is done to mitigate the risk.
- 19 And then, Mike, you mentioned that in the
- 20 acute mitigation policy, acute risk mitigation policy,
- 21 that -- initially, you said that the two hours before
- 22 sunset -- the sun rises and nighttime application. I
- 23 know several guys are cringing when I say nighttime
- 24 application. Two hours before sunset is definitely

- 1 not nighttime. Then you mentioned the 50 degree
- 2 temperature thing was maybe not accurate.
- 3 So, do you all have any plans on adjusting
- 4 those times or temperatures on the label to reflect
- 5 what your intent is?
- 6 MR. GOODIS: Right. Well, just to clarify,
- 7 I mean, I wasn't perfectly clear when I was saying the
- 8 two hours before sunset was mostly a nighttime
- 9 application. I get it. You have a couple hours to
- 10 allow for perhaps aerial application to take place,
- 11 you know, before sunset. So, that was intended. So,
- 12 you know, the timing that was proposed was what we
- intended.
- Regarding the 50 degrees, we actually
- 15 adjusted it from the proposed policy from 55 degrees.
- 16 Based on information we received, the 55 degrees was
- 17 too high. So, we actually lowered it. So, again,
- those are the intended restrictions for the policy.
- MR. COY: Okay, thanks.
- MR. KEIGWIN: Sharon and then Cheryl.
- MS. SELVAGGIO: Hi. There's been some
- 22 recent data that shows extremely high levels of
- 23 residues of neonics in ornamental plants, both trees,
- 24 shrubs, and flowers. I'm curious about the risk
- assessment process when you have a crop that

- 1 essentially moves off field but remains intact. Ir
- other words, you know, this is not a manual crop that
- 3 the residues get incorporated into the soil.
- 4 Where does this fall in the risk assessment
- 5 when you're considering that these residues remain in
- 6 plant tissue and there's a potential for exposure off
- 7 field?
- 8 MS. GUILARAN: So, we consider potential
- 9 residues on field, and we would also do a
- 10 consideration of any residues that we might expect off
- 11 field. In terms of actual measured residue data, what
- 12 we actually find, generally speaking, is that there's
- a refinement to our risk assessment process.
- 14 So, at the lower tiers, we're making very
- 15 conservative assumptions about how much potentially
- 16 could get into bee attractive matrices. Actually,
- 17 when we have actual real world data that tends to actually
- 18 refine our assumptions, it makes the risk assessment less
- 19 conservative.
- So, we will be considering monitoring data
- 21 and other residue data that are available, both being
- generated by pesticide manufacturers and also those
- 23 available in literature.
- MR. KEIGWIN: Cheryl.
- 25 MS. CLEVELAND: That's a perfect lead in to

- 1 my question, which was citrus is a permanent crop, so
- 2 it's right there. And cotton, as a row crop, is still
- 3 highly regional. So, has there been any use of some
- 4 geospacial incident reporting to help confirm or
- 5 ameliorate the risk assessment? Likewise, has there
- 6 been any use of any regional use laws for the
- 7 pesticides that help? You said citrus and cotton are
- 8 the things that have popped up.
- 9 So, has there been incident data from those
- 10 regions or use logs of those chemicals to help
- 11 ameliorate the risk assessments?
- 12 MS. ECHEVERRIA: So, in terms of utilizing
- incident data to confirm, we have characterized
- 14 available incident data with respect to the risk
- 15 characterization. In terms of actually having enough
- sufficient robust geospacial location information
- 17 associated with those data, I don't believe those data
- are robust enough to make that kind of analysis. If
- 19 we did have that data, we would be happy to
- incorporate that into the risk assessment.
- 21 With respect to refined usage information,
- 22 we would consider that in the risk assessment.
- 23 However, really, what chemical companies have agreed
- to do in response to our uncertainties around the
- 25 pollinator risk is to develop a lot of residue data

- 1 following actual applications under field conditions.
- 2 So, those data are very useful for refining the risk
- 3 assessment. That is part of the strategy.
- 4 When Yu-Ting was talking about that sort of
- 5 middle tier crops where we have uncertainty, those
- data are designed to address those uncertainties.
- 7 MR. KEIGWIN: Okay, thanks, everyone. So, I
- 8 think we're going to move into the second half of this
- 9 discussion.
- 10 MR. GOODIS: So, we have Don Parker from the
- 11 National Cotton Council as part of the metrics
- 12 workgroup that graciously volunteered, right, Don?
- MR. PARKER: Graciously volunteered is not
- 14 what I would call it. I came to DC expecting to have our
- 15 metrics workgroup meeting and not knowing that I was going
- 16 to do this. But my distinguished colleague, Tom
- 17 Van Arsdall, had an emergency fishing trip
- 18 that came up. It's in D.C., we're all in D.C., so his
- 19 secret is safe, I'm sure.
- 20 Anyway, the metrics group has made some
- 21 pretty good headway, we think, on a very complex issue
- 22 and a very challenging issue. It took us quite a
- while, though, to get our heads around what's actually
- 24 the question that we're being asked. At first we
- 25 caught ourselves asking questions about, okay, what

- should be in an MP3, a pollinator protection plan.
- Now, I want to say up front that whenever I
- 3 talk about these today, I'm going to talk about an
- 4 individual plan. You can call it a state plan, a
- 5 tribe plan. Just for ease, I'm going to say
- 6 individual plan a lot, but you know what I'm talking
- 7 about now.
- 8 When we got ourselves caught into what are
- 9 the questions that we need to ask, what's the
- 10 components we need in this plan, then we realized
- 11 that's not really what we were asked as a workgroup.
- 12 That was not really the question that was put to us.
- So, I want you to keep that in mind as we
- start moving forward because I want to very carefully
- 15 lay out first to you -- because there are some nervous
- 16 areas around what we're presenting. But I want you to
- very carefully look at what we're presenting as the
- 18 entirety.
- 19 Whenever you think about the objectives that
- 20 we brought forward, it's how to look at the state
- 21 plans and come up with something that is a metric, is
- 22 something that we can measure. It wasn't how to
- create a state plan. It wasn't what are the necessary
- 24 components of a state plan. It was given these, how
- do you put some type of metric to it.

1 What we're asking the PPDC today is to look 2 at what we're proposing and think about this as we get 3 through this. Is this response from the workgroup meeting what you've asked us to do? If it is, do we 5 continue in the development of this? That's the big 6 focus for you to think through today in our proposal. 7 What we're proposing at this point is a point system. I know a point system makes a lot of 8 9 people nervous, especially in individual states. I want you to think about the entirety of this 10 11 proposal. It's not a grading system; it is points, 12 okay. There is no approval or disapproval. 13 not what EPA said. It's not what they asked for. 14 They said is there something here that would 15 help us give some kind of measurement, understanding, 16 as to are these state plans making an impact, are they making a difference. And you're given the state plans 17 18 already. And they are very diverse. 19 So, how do you look at that diversity, that 20 complexity of cross different areas, and understand 21 what is going on? The point system then gives credit 22 where credit is due because it will add points for different areas, but it doesn't compare between 23 24 states. It provides an individual plan measurement

that can be monitored over time.

25

- They start out with a certain number of
 points. They make some improvements. They have
 better points next year. It gives you a measurement
 over time. Then you can summarize those across the
 states to come up with a national metric that helps
 you realize on a national scale are we making an
 improvement.
- With this type of system, it provides

 flexibility still for the local groups to focus in on

 what are the needs of their area. Whenever I show you

 some examples of what we're getting into here and you

 think about --

- One of the big areas that we have here is participants. I think we all agree that the whole concept around these plans is can you get the right local stakeholders to the table. If they sit down at the table and they start talking to each other about this, they resolve a whole lot of it right there in that room.
- So, one of the points would be the various stakeholder groups that you have engaged. Well, in California, that may be huge because you may have many different stakeholder groups. Whereas, in another state, there may be fewer crops grown there, fewer different stakeholder groups to have. So, there's

- 1 going to be variability. They're not comparable
- 2 across states. They're comparable across time for
- 3 that state.
- 4 It's also a mechanism that -- Katie gets
- 5 nervous when I put this in there, but it's cheap, it's
- 6 measurable, it's reportable, and it does not imply
- 7 that EPA has approved or disapproved anything. So,
- 8 keeping that in mind, and I will touch back on that
- 9 again, but I want you to keep those in mind,
- 10 especially it's not a grading system, it's not
- 11 comparing between states.
- Now, we looked at the complexity of
- everything we were given. We went through state
- 14 plans. Believe me, if you get on the committee with
- 15 Katie, volunteer to be the chairman. Do not let her
- 16 be the chairman. She will load you down with work.
- 17 We looked at most everyone of the plans to
- 18 try to see what are the commonalities, what's here,
- 19 how do we start pulling this together. Then we
- identified some common categories that were in those.
- 21 Then, that's when we started into this concept of this
- 22 point system that looking at this national metrics and
- 23 how would you implement some national metric, that we
- 24 came up with some basic guides.
- 25 It's key to keep in mind that you were given

- these diverse plans from the get go. So, whenever we
- 2 started getting those common themes put together and
- 3 putting them into different areas, we realized that
- 4 each common category had multiple areas under that.
- 5 You could kind of line those out for a point system
- 6 measurement.
- 7 There are some other aspects that we've
- 8 talked about. If we move forward, there's this thing
- 9 called a rubric that once a point system could lead to
- 10 how do you group some of this in a rubric. But right
- 11 now we want you to focus on the point system.
- 12 As an example of one of those point system
- 13 areas, we identified the participants. Like I said,
- if you think about who are the participants, there is
- still a lot of questions and all that you have to
- 16 focus in on around that. Of course, we want all the
- 17 producer groups there.
- So, you get a point for each different
- 19 producer group that's in this. You get a point for
- 20 each different beekeeper group that's in this. You
- get a point for the state lead agency, the extension
- 22 service, all of these different areas. The nice thing
- about it is are there some that we didn't think of?
- 24 Fine. Add them to it. Give credit where credit is
- 25 due. It provides the flexibility to show what that

- 1 state is really putting forth the effort to do.
- Then, whenever you list all of this type of
- 3 stuff out and you give these points, there are some
- 4 areas that we were a little bit more sensitive about.
- 5 What about federal agencies? We said give them a
- 6 point one. No disrespect, Rick. The reason for that
- 7 is very important. The local people have to own it.
- 8 So, you can't give a lot of points to outside
- 9 influence. The value is the local people have to own
- 10 it.
- 11 So, this is one of the categories that we
- 12 looked at. Then we identified communication where you
- 13 could list out what are all the avenues of
- 14 communication that are involved in this plan. Give
- points for all of those different avenues.
- 16 Education, what is your evidence that you
- 17 have actually given this educational material into the
- 18 hands of the participants around the country, around
- 19 your state. That's a whole list of things you can
- 20 have points for there.
- 21 BMPs, how many different BMPs do you have in
- 22 your plan? You get point systems for all the
- 23 different BMPs that may be added into your plan.
- 24 Progress measurements, so have you got some
- 25 evidence that has shown that you have changed what has

- 1 happened in your state. Some states already have some
- 2 questionnaires that they have developed. Those
- 3 questionnaires have asked their participants are you
- 4 more aware than you were the previous year? That's an
- 5 evidence of change. Do you bring your stakeholders
- 6 back to the table on an annual basis to improve your
- 7 plan? That's an evidence of progress because you're
- 8 keeping everybody engaged and involved.
- 9 So, that's back to the repeat of the slide I
- 10 started you with, trying to keep this as tight and
- 11 concise as I could to let you know where we are with
- 12 this, this point system, but to make sure to emphasize
- 13 it's not a grading system. It's a self-evaluation
- 14 that you would provide to that individual planned
- 15 leadership to tell them, okay, here are the things we
- 16 need. Do you have the evidence of these areas? You
- would report a point back to EPA.
- 18 We would say that if we need to move forward
- 19 with this, there would be a guidance document
- developed around this to explain what's the evidence,
- 21 what's the different things, how do you lay all of
- this out.
- We want to point out, too, to the group that
- this system, because of those lined items, it gives a
- 25 guidance document of its own. Even though you're not

- 1 comparing between states, you all know how we all are.
- 2 If we get numbers, we're worried about it, we've got a
- 3 grade and who is beating us.
- 4 So, it gives some encouragement for others
- 5 to look and say what did they get points for. Oh,
- 6 here's something we hadn't thought about. We can add
- 7 this to ours. So, it helps because it continues to
- 8 expand and it's flexible. It helps guide continuous
- 9 engagement and improvement.
- So, that brings us just back to the closing
- 11 of this plan being something that we would offer for
- 12 the initial proposal to the group. We believe that
- 13 EPA implementation of it, if recommended by the PPDC,
- 14 would probably also maybe have a guiding committee
- 15 over this aspect, the metrics, maybe in conjunction
- 16 with USDA that would have a board to review what do we
- 17 add, how do we change this as needed over time.
- 18 So, with that, I will turn it back to you.
- MR. GOODIS: Thanks, Don. Stay here. So, I
- think we'll open up for questions. Now, there are
- 21 actually other members of the workgroup that are on
- 22 the panel here. If there's anything else that they
- 23 would like to introduce or contribute to that
- 24 discussion first?
- 25 (No verbal response.)

- 1 MR. GOODIS: Okay, we'll open up for questions.
- MR. KEIGWIN: Okay, I see Tom, Marc, Liza.
- 3 We'll start there. Tom?
- 4 MR. DELANEY: One suggestion in those
- 5 different categories, that you might put a maximum
- 6 number next to some of those so it doesn't get so out
- 7 of balance. That might be a good thing to do.
- 8 MR. PARKER: I think we've still got quite a
- 9 bit of work around where do you put the points? I
- 10 think that there is also value in how many points do
- 11 you give for participants versus did you develop some
- 12 brochure. Participants are probably more important.
- 13 So, I think there's still some discussion that we
- 14 have, but I appreciate that point.
- 15 MR. KEIGWIN: Marc, then Liza, then Dawn.
- MR. LAME: You know, I find what you've
- 17 proposed very interesting. First of all, I want to
- say, you know, continue in that direction regardless
- of my comments.
- I will, of course, also say this is about
- 21 metrics. And we all know that if you can't measure
- it, you can't manage it. So, the idea is that we do
- 23 want to manage it. On the other hand, if you don't
- 24 have a management plan in place, then measurements are
- 25 just numbers. So, we want to make sure that there's a

- 1 good situation there.
- 2 First of all, I am always leery of self
- 3 assessment. The idea of states doing points the way
- 4 that you currently have it is an additive situation
- 5 where you can just add on points, which I'm not
- 6 entirely against. I think each group you get, add on
- 7 points, for instance, which I like that.
- 8 On the other hand, I think that there
- 9 probably should be a subtractive element to this. So,
- if there are states where there are more incidents in
- 11 a proportional sense, that maybe should be a minus
- 12 point, just as a matter of metrics. You can have all
- the points you want, but it can still looked like hell
- 14 when the thing is over with. So, I certainly would go
- 15 with that.
- 16 Now, I know that's not the new American way.
- 17 Everyone doesn't get a trophy that way, but I think
- it's probably a good management scheme.
- 19 I would always encourage the use of citizen
- 20 scientists. There's lots of new research saying how
- 21 productive citizen scientists are when it comes to
- 22 this. They can be trained correctly and objectively.
- 23 They would allow for a different dimension in
- 24 measurement. So, that would be my suggestion. But
- 25 good job.

- 1 MR. KEIGWIN: Liza, then Dawn, then Nina.
- MS. FLEESON TROSSBACH: Thank you. I do
- 3 understand that trying to determine from a national
- 4 perspective if state plans are successful is
- 5 challenging. I do have great concerns about this
- 6 particular point system. This is a situation where
- 7 the metrics were determined after states have
- 8 developed their plans. The vast majority of plans are
- 9 final or close to final. States were provided
- guidance, but it's a voluntary plan based on the local
- 11 state.
- So, we have our own measures that are
- specific to our states. To try to take those to a
- 14 national level is problematic. The assumption that
- states are going to change their plan or continue to
- develop in a certain way to help inform this national
- 17 success is problematic. It also puts into place, from
- 18 what I understand, what's going to be required
- 19 reporting for a voluntary plan that states did not
- 20 have to do, and people do not have to participate in.
- 21 So, I have concerns.
- I also have concerns because we are human,
- and we do compare. No matter what anybody says, it
- 24 will be a comparison between Virginia, who of course
- is going to have the most points, and somebody else

- who is not. But that doesn't mean my plan is any
- 2 better. So, I have really big concerns about this
- 3 approach. Any type of -- while you say it's not a
- 4 grading system, as soon as you put a number onto
- 5 something, it's a grading system.
- I do understand the concerns about self
- 7 assessment. You know, if this was going to go
- 8 forward, I'd rather have the EPA come in and assess
- 9 the plan as opposed to putting that burden on the
- 10 states. We've already done our work. We did the
- 11 voluntary work. I believe states have a good plan
- 12 based on their, you know, situation. They have
- metrics that I think they are happy to report.
- 14 But I do have concerns trying to put plans
- 15 that were already developed into this system. This
- should have come first, the metrics, what the national
- 17 success is and what state plans develop to be able to
- 18 report the same type of information.
- You have states that did not engage any
- stakeholders at the onset. They drafted a plan, sent
- 21 it out. They have a plan that was acceptable to their
- 22 state. You have other states who brought people in.
- 23 So, you have so many different ways to do that.
- 24 Grading based on that does not talk about how
- 25 effective the plan is, and I don't believe that it

- 1 necessarily equates to the success of the plan for
- 2 that state for the purposes.
- 3 You have states that are ag and non-ag. You
- 4 have states that have crop-specific plans and those
- 5 that have one. So, this system I don't believe lends
- 6 itself to be able to truly access the success of these
- 7 plans on a national level.
- I mean, I think there's a way to do it, but
- 9 at least preliminarily and based on what we've seen, I
- 10 would say I can speak for state lead agencies that we
- 11 would have grave concerns about this type of a system
- 12 going into place. Thank you.
- MR. KEIGWIN: Okay, Dawn, then Nina, then
- 14 Steven.
- 15 MS. GOUGE: Thank you. My question is just
- 16 for the whole group. As you reviewed the plans, were
- 17 there any specific recommendations that you sent back
- to the people who submitted those MP3s? That's my
- 19 first question.
- I was very encouraged at the mention of
- 21 mosquito abatement, particularly because we have some
- 22 areas where day biting mosquitoes are going to be
- 23 critically important vectors. If there's any
- 24 additional information you can give us on that, I'd be
- 25 keen to hear that. Thank you.

- 1 MR. PARKER: So, no, we did not send any
- 2 recommendations back to the plans for the exact
- 3 reason that she was mentioning there. It's hard to
- 4 not slip back into the thought of are we trying to
- 5 come up with a plan. No, we were not.
- As we understand it, the question to the
- 7 committee was, given these plans, how do we, without
- 8 trying to change them, without involvement of them,
- 9 they're not approved, they're not disapproved, we're
- 10 not shaping the plans, given the plans, how can you
- 11 put some type of metric together to get some idea of
- what they're accomplishing? So, with that, that's why
- 13 we went that way.
- 14 The mosquito abatement or victor control
- 15 type things are another group that had been identified
- 16 by some states, not all, but some states had that in
- 17 their plan. So, our whole approach on this was you
- don't have to check off each box, but give credit
- 19 where credit is due. If this state went this
- 20 direction, acknowledge that. If this state went a
- 21 different direction, acknowledge that. It probably
- 22 fit their local needs. But it gives you a way to see
- 23 how they're progressing over time.
- MR. KEIGWIN: Thanks.
- Nina, then Steven, then Sharon.

- 1 MS. WILSON: Hi. So, I'm unclear when you
- 2 talk about the metrics. Are the metrics bubbling up
- 3 and you're looking for common metrics across the
- 4 states that came from the plans that would be
- 5 nationally accepted metrics and then have a corresponding point
- for a specific metric? I'm not sure I understand exactly how
- 7 the point system works, beyond just the participation.
- 8 MR. PARKER: Okay. So, in this scenario, if
- 9 you went through and gave a point for these various
- 10 areas for that particular state plan or that plan, and
- 11 then you sum that up, then you have a measurement for
- 12 that state that year. The next year you do the same
- 13 thing with their plan.
- 14 MS. WILSON: It's not common metrics; it's
- 15 by state. They have their own stated metrics by
- 16 state, okay. So, I understand the concern about the
- 17 quantitative measurement not being exactly
- 18 representative maybe of what's going on, but that
- 19 doesn't discount that you could have a qualitative
- 20 portion of that -- it doesn't have to be just all
- 21 quantitative as well.
- MR. KEIGWIN: Steven, then Sharon, then
- 23 Richard.
- MR. COY: Don, I know you're waiting on this

- 1 question. The purpose of the MP3 plans are to protect
- 2 managed pollinators. The charges the EPA gave the
- 3 workgroup is real close to impossible. I'm on the
- 4 committee, but I just listened to a few of the
- 5 conference calls. I mean, I think what you all have
- 6 done is really good. It's beyond what I could have
- 7 conceived it to come up with.
- 8 But the purpose of the plans are to protect
- 9 the pollinators. There's no measurement of how
- 10 pollinators are being protected in this point system.
- 11 It's actually just measuring the plan. It's not
- 12 measuring the objective of the plan, which is what I
- see as the point of this whole exercise.
- So, any thoughts on how to measure the
- 15 effectiveness of protection of the managed
- 16 pollinators?
- 17 MR. PARKER: Sure. How much money do you
- 18 want to put up? And that's what we wrestle with quite
- 19 a bit. You know, we had a lot of discussions about
- 20 different things, but with the recognition of they're
- 21 all costly. The committee was trying to do its best
- 22 not to try to put any unfunded burden back on the
- 23 states.
- Now, obviously, yes, there's a little bit of
- answering some points that may be put back on the

- state, or it's possible EPA could do it themselves.
- 2 But they'd have to ask states to submit the evidence
- 3 and all. To say that it's not measuring anything, you
- 4 would essentially be saying that you do not believe
- 5 the goals of the state plans have anything to do with
- 6 pollinator protection. I believe that the goals of
- 7 the state plans do have a lot to do with pollinator
- 8 protection.
- 9 I believe whenever you get those
- stakeholders to the table and they sit down across
- 11 from each other and start working out commonalities,
- that that is a very strong change in pollinator
- 13 protection right there. Does it measure pesticide
- 14 residue? No. Does it measure the level of varroa
- 15 mite? No. But it measures a cooperative group that
- is working together to try to mitigate risk.
- 17 MR. KEIGWIN: Sharon, then Richard, then, in
- 18 the interest of time, we'll just see if there are any
- 19 PPDC members on the phone who want to speak. Then
- 20 we'll conclude this session. So, Sharon?
- 21 MS. SELVAGGIO: I think this is a really
- intriguing framework that you've come up with. I have
- a few different thoughts and questions. First of all,
- there are people that kind of specialize in
- 25 evaluation. I'm wondering if you had anybody like

- 1 that on your committee, because evaluation is sort of
- 2 its own science.
- 3 So, just to kind of build off Steve's
- 4 comments about implementation monitoring -- in other
- 5 words, have you basically monitored the plan versus
- 6 monitored the outcome? I think that that's an
- 7 important point and something that if you ran this
- 8 framework by people who are skilled in evaluation, you
- 9 might be able to get some good feedback. So, that's
- 10 one comment.
- 11 When you talk about locally driven, I think
- 12 there's a lot of strength in that. I would suggest
- 13 that maybe there might be baseline measures that
- should be assigned points separately from add-ons that
- 15 might be suggested by local stakeholders. So, if a
- 16 set of baseline measures that is considered important
- 17 enough that you would want every state to try to
- achieve full points on that, just because of the point
- 19 tendency that we would have to sort of assign points
- for whatever and have this grading system, it could
- 21 become meaningless. So, I think that there's a need
- for certain baseline measures independent of whatever
- local stakeholders would add on.
- I guess my last point is that we didn't
- 25 really see enough on the detail from what you

- 1 presented, especially on the progress measurements.
- 2 That's the most critical piece because, again to go
- 3 back to Steve's point, if you are giving people
- 4 information, knowledge is power, but people may not
- 5 implement best management practices no matter how many
- 6 times they hear them. This is a voluntary effort. It
- 7 relies not only the information but on people's
- 8 willingness to implement and actual implementation of
- 9 those measures.
- 10 So, I would suggest that you have within
- 11 your progress piece of this an ability to measure
- 12 people who have received the information, have they
- 13 actually implemented it. I think you need monitoring
- on behalf of the pesticide applicators or the farmers.
- 15 Have they implemented these practices, these best
- 16 management practices, to really understand if in
- 17 addition to whatever objective measures you might
- 18 collect on bee health and so on and so forth, to have
- some idea of whether people are actually taking this
- 20 information and putting it to use.
- 21 MR. PARKER: We had that discussion as well.
- We did have some evaluation experts to come in and
- 23 talk. We talked about the complications around these
- 24 measurements. A lot of times it still goes back to
- 25 what is the question.

- 1 The question we were asked was, without
- 2 interfering with these voluntary plans, how would you
- 3 create a metric. That's very hard whenever you're
- 4 wanting to talk about okay, let's mandate a monitoring
- on this. Well, it's a voluntary plan. You can't
- 6 mandate a monitoring on it.
- 7 So, given what is here, can you put some
- 8 type of indices here that gives us an idea over time
- 9 that it's doing something. I mean, the committee has
- 10 gone from starting to think about what exactly needs
- 11 to be in the state plan to what's the questions that
- we need to ask of a state plan.
- 13 Then it all kind of turned around and said
- we're looking from the bottom up. We're not supposed
- 15 to be starting at the state plan building process. We
- 16 need to be looking from the top down saying given this
- 17 set of cards, how do you make sense of what's going
- 18 on.
- 19 This was our proposal that we've come up
- 20 with at this point for the committee. Yes, there's
- 21 still a lot of work to do on details. We do have a
- list. The committee decided that maybe under each of
- those categories, that long list was a little bit too
- 24 much on a slide for everybody to digest in this time,
- 25 because our question mainly to you as a committee is,

- 1 do we move forward with this? Is this the direction
- 2 that meets what you're asking the workgroup to do? Do
- 3 we move forward with this to develop that other and to
- 4 develop the quidance around what those areas are, or
- 5 do we need to find a different avenue?
- 6 MR. KEIGWIN: Richard?
- 7 MR. GRAGG: Okay, I'm a little confused on
- 8 this whole objective here. You said that you were
- 9 asked to come up with your approach without
- interfering with the plan, right? So, then, to me --
- and if you're looking top down, then, then you, in my
- opinion -- one approach is to measure or assess
- 13 whether or not the plans are being implemented or
- 14 operationalized. That's a yes or a no. Then there's
- 15 a degree of implementation.
- Then, the other, from a top down, in my
- 17 opinion, is whether or not the plan is achieving what
- they said they were going to achieve. If you're not
- 19 going to interfere, you're not going to go into the
- weeds, then, to me, I think your numbers or your
- 21 metrics or your rubrics should be around those two
- 22 things.
- Then one way in terms of a national approach
- is to assess the plans and group them in terms of
- 25 maybe some similarities. Then you may have different

- 1 pools. Then you could group those together in some
- 2 type of assessment outcome or indication.
- 3 But I do think as well that you should work
- 4 with the states to get them to collaborate with each
- 5 other in terms of improving the plans based on EPA's
- 6 analysis or assessment or review. I do think it's
- 7 very important on the evaluator.
- I think looking back, in an ideal situation,
- 9 you would have an evaluator help the states put
- 10 together the plan. The whole thing the evaluator is
- 11 putting into the plan is helping them set it up to
- 12 accomplish their objectives. So now going back, maybe
- 13 an evaluator could help them improve that, get those
- 14 things in there. That would be a benefit to the
- 15 state. It's not a burden. You would be lending some
- 16 level of assistance, so I think it would be received
- well.
- 18 MR. KEIGWIN: Let me just check and see if
- there are any PPDC members who wanted to speak on this
- 20 topic who are participating over the phone.
- 21 MR. HANKS: Rick, this is Doug Hanks.
- MR. KEIGWIN: Go ahead, Doug.
- MR. HANKS: In the past four years, this
- 24 pollinator issue has been on the table. It seems like
- 25 it's been in my estimation pretty well discussed and

- 1 gone through. The original four metrics that we
- 2 talked about, if you look at the plan, the fifth
- 3 metric that I'd only suggest, is the awareness now
- 4 from 100 percent to 1,000 percent. That ought to be
- 5 included in these metrics of these plans as we've
- 6 discussed today. That's all I wanted to mention.
- 7 MR. KEIGWIN: Thanks.
- 8 Any other PPDC members on the phone who
- 9 wanted to speak?
- 10 MARK: This is Mark with Apiary Inspectors
- of America. I just wanted to throw out there --
- 12 MR. KEIGWIN: I'm sorry, you can participate
- or make a comment on this during the public comment
- session at the end. Right now, this is only for the
- members of the PPDC.
- 16 I think Dawn had one more comment to make,
- and then we'll conclude this session.
- 18 MS. GOUGE: Thank you. I just wanted to
- back up the comments -- but I would ignore that. I
- 20 really think that this is a lost opportunity for
- 21 anybody to go through all of these plans and review
- them and then not give feedback to those people. I'm
- 23 even okay with the self-assessment part because I feel
- that the teams that are looking for opportunities for
- 25 improvement will take any feedback that you give and

- 1 work on it.
- They're voluntary, so nobody is mandated to
- do anything. I think you're in a position of great
- 4 strength. Feedback that would be given would be at
- 5 the discretion of the groups involved to put those
- 6 practices. But to go through that process --
- 7 I also wanted to ask if that's an evaluation
- 8 or review that's going to happen annually, or even if
- 9 the team comes together annually. Getting some
- 10 feedback now would be something that they may choose
- 11 to implement over five year plans or however long.
- 12 Thank you.
- MR. KEIGWIN: Mike, anything to wrap up?
- 14 MR. PARKER: No, I don't think so. Is the
- 15 consensus of the committee that the workgroup should
- 16 move forward based on that the feedback received in
- 17 general? Is the approach and the scope of the efforts
- 18 meeting its initial goal? Again, the goal is to
- 19 provide a final recommendation to the committee in
- November. I think the group will be on track to do
- 21 that if this is the right direction. So, violent
- 22 objections?
- MS. FLEESON TROSSBACH: I do have grave
- 24 concerns about the point system. I understand what
- 25 EPA is trying to do. I understand the purpose. I've

- 1 been involved with this since the very first time it
- 2 was mentioned about pollinator protection plans. All
- 3 state lead agencies have, AAPCO has, SFIREG has, and
- 4 we've expressed our concerns.
- I do believe that there is a way to measure
- 6 the success on a national basis. I think it needs to
- 7 be based on the state plan. The way they developed
- 8 the plans, we were given latitude to develop them as
- 9 we saw fit, measure them how we saw fit for our state,
- for our industries, for anywhere there's crops, for
- our apiary industry. I think a point-based system
- just is not going to really give you that particular
- measure.
- I think that I would personally like to see
- 15 the workgroup go back to the table and not necessarily
- get rid of the idea behind the point system, but I
- 17 agree with my colleague here from Florida A&M that the
- 18 plans are already in place.
- 19 Virginia has worked on our plan for 18
- 20 months, and it's now final. We've done a lot of work
- on our plan because we were given that latitude to
- 22 make it our own. We're open to comments, et cetera,
- 23 but we were given the ability to develop our plan
- 24 based on our program. We have our own metrics. If
- 25 you want to look at our metrics and somehow maybe

- 1 group categorize, communication was a big focus on
- 2 this, do that.
- 3 So, I think it can be done. But, once
- 4 again, I have concerns about the point system, and
- 5 those particular items that were pulled out, and how
- 6 that data is going to be used. Our plans have never
- 7 been evaluated by anybody else except our own
- 8 stakeholders and our agencies.
- 9 The EPA indicated straight up that they're
- 10 not going to approve them, they're not going to review
- 11 them. But yet, we're going to be measured based on
- our plans and our components for our plans, when all
- 13 we were given was guidance and latitude.
- So, once again, I just have grave concerns
- about that approach. I do believe there's a way to
- 16 measure it, but I think additional work and other
- 17 considerations need to be taken into play or into
- 18 consideration.
- 19 MR. KEIGWIN: So, what I'm hearing, noting
- 20 Liza's remarks, is that the workgroup should continue
- 21 doing work mindful of the point that Liza and Richard
- were also making, that these plans are in place. So,
- 23 sort of a retroactive development of metrics could be
- 24 challenging, but the workgroup should continue working
- and let's see where you all are come November. Does

- 1 that work?
- 2 MR. PARKER: All right.
- 3 MR. KEIGWIN: All right, so that was a great
- 4 discussion. The downside is we're 15 minutes behind
- 5 already after the first topic. But I think we can
- 6 make up some time. So, why don't we come back here at
- 7 11:00. That clock is only a few minutes fast, so keep
- 8 that in mind.
- 9 (Whereupon, a brief recess
- 10 was taken.)
- MR. KEIGWIN: So, our next session is
- 12 Preparing for Future Products of Biotechnology. So,
- 13 let me turn things over to Bob McNally, and he's got a
- 14 crew that's going to work us through this session.
- MR. MCNALLY: Yes, thanks, Rick. I just
- 16 wanted to say that when we discussed ag biotech with
- 17 you all last fall, we covered two areas, if you might
- 18 recall, from that session. There was a White House
- 19 memo issued in 2015, and it sort of outlined three
- 20 things that the federal government needed to do. The
- 21 first was the coordinated framework update. That was
- to clarify the current roles for EPA, FDA, and USDA.
- 23 As we talked about in the fall, that was issued in
- 24 September 2016. That's just updating the roles, or
- clarifying the roles, in the coordinated framework.

- 1 We had a presentation by Mike Mendelsohn on
- 2 that.
- 3 The second piece of that memo was to outline
- 4 a long term strategy for ag biotech. That also was
- issued in September 2015. My sense from that meeting,
- 6 you all had a lot of interest in this area, so we're
- 7 sort of back here for a sequel.
- 8 We did not cover the third item then because
- 9 it had not yet been issued, and that's the item you
- 10 see here. It's the NAS report on ag biotech. That
- 11 was issued in January. That's available online if
- 12 you'd like to get a copy of that.
- 13 What we want to do today, though, is provide
- 14 an overview of that report's key information as it
- 15 relates to your mission here with PPDC. There's other
- 16 information there you might find interesting about how
- 17 the federal government should improve its training,
- should improve its risk assessment processes.
- 19 But we want to focus in on what you were
- 20 interested in last fall, which is what are these
- 21 technologies, and how might they have pesticidal
- 22 applications that are of interest to you, and when
- 23 might they arrive here at EPA, and, more importantly,
- 24 what do they mean to you in terms of who you represent
- 25 here at the table.

1 So, the feedback, we have questions in the 2 back of the presentation that we need from you. It 3 includes these novel technologies, might they address some of the issues that are important to you. If so, 5 how? The second question is, do you have concerns with these technologies. If so, what are those 6 7 concerns? And then, what other stakeholders need to be involved in this discussion? 8 9 Now, as I said last fall, in a few years, 10 rather than the topics you see on today's agenda, we 11 might have new ones that are very, very specific to 12 these technologies. So, sort of in the movie 13 nomenclature, Chris Wozniak's presentation this morning is kind of like the coming attractions that 14 15 you see when you go to the movie theater. However, we 16 think in the very near future, some of these 17 technologies and their registrations may become sort of the feature presentation. 18 19 So, today we want to give you an overview of 20 some of those and get feedback. So, with that, let me 21 introduce our sort of leading man to go over this 22 morning's coming attractions. Chris has been following sort of the horizon scanning with these 23 24 technologies for a number of years and has a lot of

expertise in these areas.

25

- 1 So, with that, let me turn it over to Chris
- 2 for this morning's presentation.
- 3 MR. WOZNIAK: Thanks, Bob. I've never been
- 4 introduced as a sequel or a coming attraction or a
- 5 leading man, but I think that's a positive thing. Get
- 6 your popcorn, and we'll get started.
- 7 So, as Bob mentioned, this is like the third
- 8 prong of this effort where we had the CF update, long-
- 9 term strategy, and then the NAS, or National Academy
- of Science, engineering medicine report came out a few
- 11 months ago.
- 12 By the way, I apologize. I meant to put the
- 13 URL on here. I can send it today. I can send it
- 14 around to you. There's a PDF of this available online
- for free, so you can download all 200 pages of it.
- 16 It's a thick, meaty document. So, my emphasis when I
- 17 say brief summary is on "brief". We're going to focus
- 18 on one particular area.
- 19 So, this slide here, the first one, is one
- that I borrowed from Richard Murray, the panel chair
- of that committee. Again, this commission of an
- 22 external independent analysis of the future landscape,
- 23 basically an attempt to be as clairvoyant as possible
- and looking 5 to 10 years out.
- 25 Again, a rather meaty report, so there are

- 1 several areas here, all very interesting. My focus is
- going to be really on number 4, on understanding risk
- 3 related to future biotech products. Quite frankly,
- 4 what are some of those biotech products.
- 5 For some of them, the future is already here
- 6 knocking on the door. Other ones, again we have to
- 7 extrapolate and speculate a little bit. But yet,
- 8 given the way the technologies are moving forward so
- 9 rapidly, it's certainly within the realm of
- 10 possibilities without any hyperbole needed.
- 11 So, statement of task, the panel had several
- 12 areas that they were to address. Some of my
- 13 colleagues would say there were some things that they
- weren't supposed to address, but they still did. So,
- 15 I think we definitely got our money's worth in that
- 16 respect.
- 17 Again, I'd like to focus here on the
- potential for these future products and whether they
- 19 pose different risks. Are they somehow different than
- the regulatory system as we know it today and our risk
- assessment processes won't be able to handle it?
- 22 That's the simplest way to put it.
- So, we're going to look into some of those
- 24 specific products and talk a little bit about the
- 25 potential challenges that they will give to the

- 1 agencies. I also want to point out that regulation is
- 2 not static. We're constantly horizon scanning, but
- 3 also improving our techniques for risk assessment or
- 4 just trying to further our understanding of possible
- 5 exposures in the environment to all kinds of biotech
- 6 products from microbials of all different kinds to
- 7 plants and even mosquitoes.
- 8 So, here's a partial list of some of these
- 9 novel products. On the right side I put a time frame.
- 10 This is, in some cases, I think, pretty accurate, in
- some cases it's my guesstimate or my speculation.
- 12 I'll point where that is the case.
- So, these male-sterile genetically
- engineered Aedes aegypti, or yellow fever mosquitoes,
- for population suppression, they're obviously a
- 16 reality. You've certainly seen them in the news
- 17 lately. They're in review at FDA currently, and I'll
- 18 talk a little bit more about that in detail a few
- 19 slides later.
- The Wolbachia-based mosquito population
- 21 suppression mechanisms, those are already in house and
- being reviewed. Again, I'll go into more detail in a
- 23 minute.
- 24 Gene drives, that's a really interesting
- area, I think. This is for both plants and animals.

- 1 This could be for something agricultural like pest
- 2 control, pest management. It could also be for
- 3 conservation. There's a group that's working, for
- 4 example, on rat and mouse control on Pacific islands.
- 5 I'll go into a little more detail later as to how this
- 6 might work.
- 7 There's currently a moratorium on use of
- 8 these gene drives, so again, we're looking probably at
- 9 5, maybe even 10 years out, before they're a
- 10 reality in the environment. However, in laboratories
- 11 and in discussions and meetings, these are already
- 12 here and being discussed thoroughly.
- 13 I'll talk a little bit about the American
- 14 chestnut and the efforts to engineer that for blight
- 15 resistance, one of my favorite projects. That is
- also, shall we say, knocking on the door.
- 17 The microbial consortia is something that the
- panel paid some attention to. Some of these may be
- more TSCA oriented. They may be more for soil
- 20 remediation. They might be for geomining. But some
- of them could have pesticidal properties.
- The reason that this is significant is that
- 23 it's quite likely these microbial consortia will have
- 24 novel genetics. They may have synthetic sequences,
- 25 even synthetic non-natural nucleotides. They could

- 1 certainly have kill switches, most likely will to
- 2 prevent their spread and persistence in the
- 3 environment. So, there's a whole area there.
- 4 Again, I applaud the panel for focusing in
- on that, because, as I said, I was impressed when I
- 6 saw the presentations on geomining and people using
- 7 bacteria to concentrate metals and things. This is
- 8 exciting stuff.
- 9 Synthetic double stranded RNA for RNA
- 10 interference, inhibiting gene expression, again,
- 11 already here. There will be nuances, changes to it,
- 12 certainly. Some products we haven't seen that we know
- are out there by talking to academic and industry
- 14 researchers. Some are already, like I said, in house
- in review.
- 16 These genetically recoded organisms, this is
- again a case where you're literally changing the
- genetic code so that organisms that you release may
- 19 not be able to talk to each other. In other words,
- 20 they can't exchange DNA because they're using two
- 21 different sets of score cards to express genes. So,
- 22 these are all things again, maybe a few years down the
- 23 road, but certainly within the realm of possibility
- 24 soon.
- 25 And gene edited plants, microbes, animals,

- 1 we've seen a lot of that in the news, certainly.
- 2 These could be small tweaks to the DNA sequence that
- 3 can have major ramifications. In some cases, they're
- 4 knocking out a gene. In some cases, they're turning
- on a gene. In some cases, they're modifying the
- 6 protein that's produced by that gene, et cetera.
- 7 So, there's a whole gamut there. We have
- 8 not seen these come through the door yet. Other
- 9 regulatory agencies have, however. I have no doubt
- 10 that it's just a matter of time before one is
- 11 submitted to EPA.
- 12 So, I'll talk a little bit initially about the
- 13 two mosquito products that I mentioned. Again, the
- 14 emphasis here is on population suppression. The
- 15 first, the Wolbachia pipientis, this is a bacterium
- 16 that lives symbiotically within the cells of certain
- 17 insects, really about a million species. Some people
- 18 estimate about 60 percent of all arthropods have
- 19 Wolbachia of one type or another in them, also in some
- 20 crustaceans, some nematodes as well.
- 21 The beauty of this system is that you end
- 22 up, if you have mischaracterized strains -- in other
- words, the male and female have different strains or
- one is missing a bacterium completely -- you end up
- 25 with non-viable eggs. Therefore, the population goes

- 1 down over time.
- 2 The second is the genetically-engineered or
- 3 oxy type mosquito that I mentioned in the previous
- 4 slide. Again, this is already in field testing in
- 5 other countries and on the verge here. It's being
- 6 reviewed currently at FDA.
- 7 Both of the technologies work through a
- 8 release of just male mosquitoes. I want to emphasize
- 9 that. So, these mosquitoes aren't the kind that can
- 10 bite people. Secondly, they're incapable of
- 11 reproducing. They're short lived, so they don't
- 12 persist in the environment.
- So, first we'll talk about the OX513A
- 14 mosquito from Oxitec. This is one that I think is
- 15 really a nifty system where in the laboratory you have
- the larvae in your little pan of water. You keep
- 17 tetracycline in there and that keeps them happy and
- 18 they're able to reproduce. Once you remove the
- 19 tetracycline, they'll die. So, that's a bit of an
- 20 oversimplification, glossing over some molecular
- 21 biology, but for the sake of brevity, they require the
- tetracycline to complete their life cycle.
- There's also a red fluorescent marker
- 24 protein in there that can be used to track these in
- 25 the environment. So, when you release the males and

- 1 they're carrying this DS red protein, they mate with
- 2 the native females, and you can see it in the
- 3 offspring. The interesting thing about this one is
- 4 the larvae go through their first few molts and
- 5 actually compete with other larvae in their little
- 6 puddle of water. It's significant from a competition
- 7 standpoint. Then they die before they would pupate
- 8 and go on to become adults.
- 9 Again here, population is the stated goal.
- 10 It's not about saying this will eliminate Zika or
- 11 change the disease incidents. That certainly could
- 12 happen. But the claim is for population suppression,
- and that's one of the reasons that EPA has pending
- 14 oversight over these mosquitoes.
- 15 As I mentioned, outside of the country there
- is credible efficacy data in several instances and
- 17 ongoing studies in several countries. Both of these
- 18 products require repeated release. The amount and how
- 19 often you do it will depend on the situation. Early
- in the season when the populations are high, you're
- 21 going to be releasing more mosquitoes because you want
- about six or seven times as many males as there are
- 23 native males that are going to compete for the
- females. So, you do your baseline measurements, your
- 25 range finding before and then you do your releases.

- 1 These only last a couple days in the environment.
- So, you release them twice a week, maybe in
- 3 some cases even three times a week. You're constantly
- 4 monitoring to see what's happened to the population.
- 5 And over the course of a few months, you would see
- 6 that population go down in some cases, the published
- 7 studies, 92, 94, 96 percent. So, that's pretty
- 8 significant.
- 9 So, I mentioned FDA having current
- 10 oversight. To kind of put it in a nutshell, currently
- 11 there is a guidance document that was published online
- 12 for comment. The comments were received. We're
- waiting for that document to be signed off on over at
- 14 FDA and the Center for Veterinary Medicine.
- 15 Following that, those mosquitoes that are
- 16 indicated for population suppression will come to EPA
- 17 for oversight. Those that are making claims of say
- 18 reducing viral titers in the mosquitoes or reducing
- 19 the number of virus particles or the incidence of a
- disease, that's an animal drug. So, that would remain
- 21 with the Center for Veterinary Medicine as an
- 22 investigative new animal drug.
- So, on the Wolbachia, I mentioned it's a
- 24 bacterium. However, it's one bacterium that you just
- 25 can't culture in a petri dish the way you can with so

- 1 many others. That has frustrated a little bit of the
- 2 research, although it made some great headway in
- 3 understanding the mechanism quite recently.
- 4 As I said, about 60 percent of all insect
- 5 species, depending on who you ask, are presumed to
- 6 have this. There are some mosquitoes, for example
- 7 Aedes aegypti, that typically don't. There's one
- 8 report of one incident of having a natural Wolbachia,
- 9 but, in general, they don't.
- 10 That's significant because again, as I
- 11 mentioned, if you release the males with a Wolbachia
- 12 strain and the native population of females don't have
- a Wolbachia, then you end up with these non-viable
- 14 eggs. The eggs are laid. You've occupied the
- 15 female's time for mating, but it's a dead end.
- So, again, you're looking at population
- 17 suppression over time with releases, again, occurring
- depending on the density of the area, the number of
- 19 houses in the area. You might be trying to
- 20 (inaudible) this mosquito in, the population of the
- 21 mosquitoes themselves, et cetera.
- So, again, the releases, take them with a
- grain of salt, once, twice a week, maybe even three
- times a week. Again, monitoring with ova traps for
- 25 eggs and adult traps to see where the population is

- going as you progress through the season with multiple
- 2 releases.
- 3 You know, with both of these technologies, I
- 4 mean, they are only limited by how many production
- facilities you want to build, basically, and produce.
- 6 You can produce millions of mosquitoes a week in a
- 7 relatively small facility. Again, depending on the
- 8 density of area where you're trying to treat, you can
- 9 treat whole neighborhoods, even small cities.
- 10 Some of this has gone essentially commercial
- in Brazil, for example, with the Oxitec mosquito. If
- 12 you're interested, again there's a great little film
- on line about five minutes and it shows you how they
- do it. It's rather impressive.
- So, the regulatory status, if I didn't
- 16 mention it earlier, this is a microbial biopesticide
- 17 because we're dealing with a bacterium. There have
- been some field trials in California, in Kentucky,
- 19 upstate New York. There are a couple pending here,
- some that actually have just started releasing in
- 21 Florida and also in certain parts of California.
- 22 There's also a pending registration for Aedes
- 23 albopictus, the Asian tiger mosquito, that will likely
- 24 be completed this year as well.
- 25 So, I mention these products because they're

- on the cusp. I mean, they're right here ready to go.
- 2 There's already been some field testing. So, we will
- 3 see how that turns out, how the data looks.
- 4 In terms of gene drives, again, this one is
- 5 a little bit further in the future, as I mentioned,
- 6 simply because I think, appropriately, the scientific
- 7 community has said this is a very powerful tool. We
- 8 really need to think about what we're doing, and we
- 9 need to get input not just from the scientific
- 10 community but from a broader cross section of society.
- 11 The way this works is simply to skew the
- 12 inheritance of a specific gene. So, for example, we
- 13 typically have paired chromosomes. We have 23 pairs
- in our body. You've got roughly a 50/50 chance of
- 15 getting the genes from one or the other into the sperm
- 16 cell or an egg cell. With the gene drive phenomenon,
- you can get essentially 100 percent.
- 18 So, if you want to drive that gene into the
- 19 population, every single offspring is going to contain
- your gene. So, that's extremely powerful. You can
- see, if you put in a gene that deleterious to an
- organism, you could, in theory, drive that organism to
- extinction. So, that's a different scenario than what
- we're used to dealing with.
- 25 Functions in sexually reproducing organisms,

- 1 if your organism clonally propagates like some
- 2 plants do, it's not going to work. It's not going to
- 3 work in bacteria or viruses. Won't work in long-lived
- 4 elephants, humans, other things, whales. It's not
- 5 going to function there. But for a lot of other
- 6 things, you can see some annual weeds perhaps could be
- 7 the target of a gene drive, mosquitoes, rats, and
- 8 mice, as I mentioned on Pacific islands.
- 9 So, again, the National Academies has done a
- great job with the report. There's the URL for those
- of you who are interested. Again, a thick document,
- 12 good bedtime reading. But it's very interesting
- 13 stuff, and there are meetings going on, I can tell
- 14 you, all the time around the world, people focusing on
- 15 what can we do with these gene drives and what should
- 16 we be really considering ahead of time before we get
- 17 to that point of environmental release.
- 18 Island conservation dot org has a good
- 19 website. Again, I urge you, if you're interested in
- 20 more detail, they have some published peer review
- 21 articles, as well as press releases on there. I don't
- 22 think I need to tell you just how devastating some of
- these rodents have been on certain islands, I mean,
- 24 just wiping out bird species as well as changing the
- 25 flora as well. They really ruined some areas.

- 1 Dropping broad spectrum toxic pesticides has helped
- 2 to some degree, but it also obviously has its
- 3 consequences and costs. So, this would be a really
- 4 powerful technique.
- I should also mention some of these, and one
- of the ones that they're considering, is a naturally
- 7 occurring gene drive. They still have to do some
- 8 genetic engineering, but it's not like the
- 9 CRISPR/Cas9s you may have heard of; it's a naturally
- 10 occurring gene drive in this mouse where only males
- 11 are produced. With a world full of male mice, what
- 12 can I say. But anyway, it's a dead end for the
- 13 population.
- 14 The great thing is, starting this off on an
- island kind of makes sense because whether it's a
- 16 mosquito or a mouse, if there's some level of
- 17 containment simply by the geographic isolation of the
- island, I think some people would be a little bit more
- 19 interested in it.
- 20 Another example, avian malaria carried by
- 21 mosquitoes, wiping out honey creeper species on
- 22 Pacific islands. That's another area where folks,
- both government and academic and private, are looking
- 24 at potential for attacking that mosquito on these
- 25 islands, driving it to extinction at least locally,

- and hopefully saving the honey creeper species from
- 2 extinction.
- 3 RNA interference with pest control already
- 4 here, but there are some nuances that we haven't seen
- 5 yet but we likely will see. So, these can be
- 6 expressed in plants. We have that already under
- 7 review. It's actually been registered for a seed
- 8 increase for corn root worm control.
- 9 But here's an example where this is a group
- 10 at Beltsville that's highlighted in the URL at the
- 11 bottom, the UMD EDU news. They're looking at brown
- marmorated stinkbugs and gypsy moths and targeting
- again specific genes that you can silence. So, you
- 14 pick a gene that's specific to that organism. You get
- 15 the sequence just right, and you make sure that that
- 16 gene is important enough that the organism either dies
- immediately or can't reproduce or whatever, but just
- 18 simply leads to population suppression.
- 19 Now, some of these can be even as a spray.
- I mentioned it can be expressed in plants. You could
- 21 express them in bacteria. You could put out live
- 22 bacteria with these or you could heat kill the
- 23 bacterium and use them just as a carrier and a
- 24 production model for your double strand RNA. You
- 25 could put your double strand RNA into a bait, whether

- 1 it's for ants, fire ants or something like that, or
- whatever, and have it target them. It doesn't work in
- 3 all species the same. Certain lepidopteran
- 4 (phonetic), for whatever reason we don't fully
- 5 understand, it doesn't seem to be as functional, but
- 6 it certainly has great potential.
- 7 So, I should just mention these can also be
- 8 used to reverse herbicide resistance and weeds. So,
- 9 you can target the gene that's giving the resistance
- and potentially, at least theoretically, tank mix it
- 11 with the herbicide and undo the resistance and kill it
- 12 at the same time.
- 13 Gene editing for plant disease resistance,
- 14 we have not seen this come in, as I mentioned earlier.
- 15 Other agencies like APHIS have seen these types of
- 16 products come through their door. We will soon. I
- have absolutely no doubt.
- So, I'll just give you one example of the
- 19 power of this technique. This doesn't have to but
- often uses CRISPR/Cas9 for gene editing. TALENs are
- another method or another product that can be used to
- 22 edit the gene sequence at a fine level.
- So, this one is bread wheat. Bread wheat
- 24 isn't simple the way I mentioned, where we all have
- 25 paired chromosomes. Well, they have three sets of

- 1 pairs. So, when you try to breed this conventionally,
- 2 it's like the whack-a-mole. You do something here and
- 3 something else pops up. It's very difficult, if not
- 4 impossible, just to breed in this resistance for this
- 5 fungus that causes a powdery mildew.
- 6 With this system, these folks were able to
- 7 change all copies. There's really three sets times
- 8 two, so it's six alleles, or six genes, and edited in
- 9 one fell swoop. Basically, what they did, I
- 10 mentioned, there's 530 DNA base pairs changed. It
- 11 sounds like a lot, but if you consider the size of the
- genome and the billions of (inaudible), it's
- 13 minuscule.
- 14 These are gene knockouts, so there's no new
- 15 protein produced. No potential for allergenicity
- 16 alterations, other than what wheat already has. If
- 17 you look at the picture on the lower right, you can
- 18 see on the far right that leaf surface is clean. The
- others all have the little white spots, the mildew on
- them. There's a big reduction, obviously.
- In fungicide use, if you don't have the
- fungus, you don't have to spray. This can be a very
- devastating disease in terms of yield loss. But, in
- addition, it's a timing thing and you have to play
- 25 games and predict. Well, I think it's going to be a

- bad year; I'm going to go ahead and spray. So, your
- 2 fungicides may or may not hit the target, may or may
- 3 not be needed, but you sometimes can't wait to put
- 4 them on. So, the reduction here is significant.
- 5 There's an interesting article there on PBS
- dot org that I mentioned below, if you're curious
- 7 again. It's called Editing Out Pesticides. So, these
- 8 can be really powerful tools for reducing all kinds of
- 9 pesticides, not just fungicides.
- 10 American Chestnut Research and Restoration
- 11 Project, as I mentioned, is one of my favorite topics.
- 12 I think it requires big thinking and a brave heart, so
- 13 to speak. This is totally out of the normal paradigm
- of OPP in the sense that at least with biotech, we
- tend to look at highly managed row crops and things,
- 16 cotton, corn, potatoes, et cetera, some public health
- 17 pest control.
- This is about engineering a tree and putting
- 19 it out into the environment all over the place. This
- 20 map is the historic range map of the American
- 21 chestnut. You can see from Maine to Mississippi,
- 22 quite extensive, obviously a dominant tree in the
- 23 eastern forest at one point. Thanks to this fungus,
- there are just stumps with sprouts for the most part
- 25 left. There are a few isolated populations of trees

- in Wisconsin and up in the northeast.
- 2 But basically, without genetic engineering,
- 3 the breeding efforts with the Chinese and European
- 4 chestnuts, it helped some, but you don't necessarily
- 5 get an American chestnut habit. The form is not the
- 6 same, and you don't get the degree of resistance that
- 7 the Chinese trees already have.
- 8 So, coupling that breeding scheme with this
- 9 genetic engineering I think will be a successful
- 10 route. Bill Powell, who is at the State University of
- 11 New York in Syracuse, is headlining this effort but by
- 12 no means works alone. There are state chapters all
- over the eastern seaboard that deal with the American
- 14 Chestnut Foundation and academic institutions that are
- 15 trying to move this forward.
- 16 The nice thing about it is it's a fairly
- 17 simple system. They took an oxalate oxidase gene from
- 18 wheat, put it in there. Oxalate is critical for this
- 19 fungus to do its damage. You knock out the oxalate,
- you don't get the damage. It doesn't mean the fungus
- 21 can't maybe hang on and grow there for a bit, but it
- does not cause the big cankers and the damage that
- 23 really are the death now of this tree.
- As I mentioned, the ultimate goal is to put
- 25 it out there. It raises questions like, well, who

- 1 owns it, is this going to be -- as Bill and I have
- 2 talked, this is going one of those grandiose projects
- 3 where by the time it's successful, everybody that worked
- 4 on it is going to be dead. That's the simple truth.
- 5 So, you have to have some foresight.
- 6 As I said, I have a brave heart and realize
- 7 that all this effort, you'll never know if it really
- 8 worked. But we do have some preliminary data from
- 9 APHIS field permit that these trees are looking good
- and they'll continue to be bred with other American
- 11 chestnuts that the foundation has identified.
- 12 So, APHIS would regulate this because there
- are plant pest sequences involved and the genetic
- 14 engineering of the chestnut. Of course, we would look
- 15 at it because it's a pesticidal mode of action for
- that transgene. FDA would probably look at in a
- 17 voluntary sense. It's not clear since they look at
- allergenicity issues whether the use of a wheat gene
- 19 might raise some issues with them. That's all still
- 20 yet to be decided.
- 21 But we have had several meetings with this
- group, the three agencies, and certainly we think that
- 23 the safe exposure to this oxalate oxidase gene, which
- 24 is present in all kinds of grains but also a lot of
- 25 dichod or vegetable species, things we eat pretty much

- 1 every day. So, there's no reason to think that the
- 2 oxidase enzyme is a health issue.
- 3 So, general predictions, I mentioned they're
- 4 trying to look out 5 to 10 years. But one thing
- 5 that's clear, more complexity for sure, just the
- 6 diversity of the types of organisms, but also the
- 7 techniques used to create those organisms. This idea
- 8 of sort of having A, C, D, and G for your nucleotides
- 9 and your DNA and adding in a new one changes the
- 10 language, literally, for the DNA. That's something
- 11 new.
- 12 Having synthetic sequences where you replace
- the whole chromosome in a fungus, chromosomes that
- 14 have never been seen before in a natural environment.
- Those are going to present challenges to the risk
- assessment. Certainly, there would be a lot more
- 17 likelihood, I think, of probabilistic quantitative
- 18 risk assessment and also based on modeling to try and
- 19 understand this. I'm not sure some of the experiments
- 20 could be done in a typical manner the way we do with
- 21 acute tox studies, for example.
- 22 Also, the diversity, obviously pesticides,
- 23 that's our interest. But these will run the gamut, I
- 24 mean all kinds of products. There's some of them I
- 25 wish I could tell you about I've been talking to. The

- 1 companies, of course, are very silent on what they
- want to do with some of these newer products. I mean,
- 3 they touch your lives in all kinds of ways, not just
- 4 on the pesticide side of things.
- 5 They also caution that the number of
- 6 products coming in could really increase and that, as
- 7 Bob mentioned, they suggested probably more training
- 8 and, quite frankly, even possibly just more people to
- 9 deal with these in the sense that if there aren't
- 10 adequate people to deal with the risk assessments and
- 11 the regulatory and legal matters, that it's always
- 12 possible you'll hold up progress. So, that's a
- 13 consideration from the panel.
- So, the conclusions, as I said, this is very
- 15 lengthy. I apologize for just taking one slice of
- this report. There's a lot more in there. Certainly,
- as I said, if you crack the cover on that file, you'll
- 18 see what I'm talking about.
- 19 I think I've covered most of this already,
- so I won't say much more about it. We continue to
- look over the report, even though we've read it
- 22 several times. Over time, the types of products we
- 23 see will no doubt cause us to go back and reflect on
- 24 what's been said in that report, and even the one
- 25 before that, the one that I guess came out in 2015.

- 1 Fred Gould ran that panel on products of biotechnology
- 2 as well.
- 3 So, we actually do stay in touch with some
- 4 of the panelists and have a back and forth, almost a
- 5 debate, about certain topics. So, this is a living
- 6 document, so to speak.
- 7 So, with that, I guess we get back to the
- 8 feedback area. We certainly would appreciate your
- 9 input. Bob already went over some of these points, so
- I won't reiterate them, but we're certainly open to
- 11 questions.
- 12 MR. MCNALLY: Maybe just to start, if you
- have any clarifying questions for Chris on the
- 14 technologies, then, if you want, we can turn to the
- 15 questions on the last page here to go through and get
- 16 feedback and advice from you all. But any just
- 17 general questions about the technologies that Chris
- 18 could perhaps clarify?
- MS. PALMER: Thank you. That was a
- tremendous presentation, really interesting. So, I
- 21 appreciate your putting it together. I think that in
- 22 particular the mosquito control technologies have real
- 23 potential for human health. They may also have
- 24 potential in the Hawaiian islands, the bird extinction
- 25 capital of the world. We are very interested in those

- 1 technologies for the control of avian malaria.
- So, I wanted to ask, it seems like the
- 3 regulation of the Wolbachia is fairly straightforward
- 4 as a microbial pesticide. But my first question is,
- 5 with the Oxitec genetically-engineered male mosquitoes,
- 6 you said that FDA has those now and the ones for
- 7 suppression go to EPA. I'm wondering, once they get
- 8 to EPA, what is the process and what can we expect
- 9 when they get to EPA?
- 10 My second question is with regard to the
- 11 gene drives. We do have more concerns, obviously,
- 12 about those and potential global consequences. I'm
- just wondering is there some sort of international
- 14 regulation or treaty or something underway so that we
- 15 don't have to worry about what might happen in all the
- different countries developing those gene drives?
- 17 MR. MCNALLY: Thanks Cynthia. Let me handle
- 18 the first question. Maybe Chris and I can do a tag
- 19 team on the second.
- I think your first question is what happens
- 21 when it's sort of given to us in terms of the transfer
- 22 from FDA. Basically, the company, just like the
- 23 Wolbachia group, could pursue an EUP with us. There
- 24 are possibilities for a Section 18 with us.
- 25 Obviously, the reason you do a Section 5 and EUP would

- 1 be to perhaps get additional data that would support a
- 2 Section 3 registration.
- 3 One thing we've committed to do in the
- 4 previous administration is that for any of these novel
- 5 technologies, we feel it's important to have an
- 6 independent peer review with our science advisory
- 7 panel. So, I can't prognosticate the future, but
- 8 that's how we've handled things in the past with BTs
- 9 and with RNAI. I think that would be something we
- 10 would do in a similar fashion. So, to answer your
- 11 question, the company could pursue a Section 5, a
- 12 Section 18, and ultimately a Section 3 registration
- 13 with us.
- 14 On the second question -- are you aware of
- anything in terms of internationally, Chris?
- MR. WOZNIAK: I'm not aware of anything
- 17 specifically intended to address gene drives. I would
- think, to some degree, the Cartagena Protocol on
- 19 biodiversity and transfer, what they refer to as LMOs,
- 20 cross country lines, might have applicability in some
- 21 cases. But that's obvious concern, as I mentioned,
- that you can potentially cause an organism to go to
- extinction. Once it's released, how do you stop it
- from crossing a border.
- There are considerations already underway

- 1 where people talk about various technical fixes, so to
- 2 speak, remediation plans, that have to be in place
- 3 before you even consider a release so that you can
- 4 call something back. There are even some cases where
- 5 people talk about protecting relatives of the species
- 6 with a sequence beforehand so that if a gene drive
- 7 somehow got into it, it would have no effect.
- 8 So, all of these are under consideration,
- 9 but I'm not aware of a specific legal remedy yet.
- 10 MR. MCNALLY: Just a quick point from the
- 11 report that we couldn't cover, I think there was a
- 12 recommendation that we need to include, the social
- 13 sciences. There are ethical issues here. That's
- 14 something that was made fairly strongly when you're
- 15 talking about gene drive and what that might mean.
- 16 So, that's also another finding/recommendation from
- 17 the report.
- 18 MR. WOZNIAK: One other thing I'll mention
- just briefly with regard to your first question is
- that a couple of us did work with FDA and CDC on the
- 21 environmental assessment review when the Oxitec
- 22 mosquito came into FDA over the last year and a half,
- 23 roughly, two years. So, we have that experience
- 24 jointly with those other agencies. FIFRA is obviously
- 25 a little different than the Food, Drug, and Cosmetic

- 1 Act, for example, or the National Environmental Policy
- 2 Act. So, what we look at in OPP may be slightly
- different, but the biology is the same.
- 4 MS. CLEVELAND: So, I guess I would like to
- 5 follow up on Cynthia's call for international
- 6 engagement. It looks to me like you're trying to
- 7 still figure out what the US government is going to do
- 8 and the different agencies. I get that. But as these
- 9 are emerging technologies, the system will emerge all
- 10 over the place. You already quoted several other
- 11 countries.
- 12 So, I would have thought, and I'm not
- familiar with the report, that there should be
- something very strong in there about getting
- 15 international engagement. I know EPA is always
- 16 resource constrained. I get that. But boy, is this
- one very, very important to be at the table as the
- 18 other governments around the world start to make their
- 19 risk assessment policies, or regulations, or laws, or
- 20 whatever.
- 21 So, there must be some format for
- international discussions on these as they emerge.
- 23 It's very important for our government to be there at
- 24 the table.
- MR. MCNALLY: Agreed.

- 1 MR. KEIGWIN: Steven, then Gabrielle, then
- 2 Nichelle.
- 3 MR. COY: Pretty basic question. With
- 4 regards to the RNAi and -- I don't see where I was
- 5 looking for that triggered my note, but there's a new
- 6 biofungicide that the almond industry is using this
- 7 year. So, with those type of things, are you looking
- 8 at the effects on honeybees for those with the whole
- 9 neonicotinoid thing?
- 10 After X number of years, now we're looking
- and going back and saying, hey, maybe we should look
- 12 closer and a little more deeper. I just want to make
- sure that you don't forget those things could affect
- 14 honeybees or all pollinators.
- 15 MR. MCNALLY: Yes. I quess as a general
- 16 point, obviously, no matter what it is, we have the
- 17 same sort of data requirements that people have to
- 18 satisfy. So, the bee issue would be something that we
- 19 in the biopesticides program look at currently and
- 20 will look at in the future with all these novel
- 21 technologies.
- MR. KEIGWIN: Gabrielle and then Nichelle.
- MS. LUDWIG: I'm moving away from just
- questions. Is that okay? So, one, I just want to say
- 25 thank you for following up on some of the comments

- from the last PPDC, basically saying you only looked
- 2 at where we were, not where we're going. So, this has
- 3 been very, very helpful to see how much thinking has
- 4 been going on, particularly because of the NAS report,
- 5 but reflected within the Agency. So, just thank you.
- A couple things that I think -- I don't know
- 7 where this belongs, but I second Cheryl's point that
- 8 nothing we do sticks just in the United States
- 9 anymore. So, how do we deal with that?
- I think the other thing, and this comes up a
- 11 lot, is really understanding the tradeoffs. Whether
- 12 you're talking about the citrus and bee issue or
- 13 talking about soil fumigants, talking about varroa
- mite control, these technologies could really be game
- changers in terms of pesticide use. So, being able to
- 16 understand, okay, sticking with what I'll call a
- 17 traditional technology versus these new technologies,
- 18 what are the new risks, old risks? I think for OPP in
- 19 particular, that's going to be a question that will
- 20 come up a fair bit. How does this compare to what
- 21 we've been doing in terms of --
- I mean, this is not my personal opinion, but
- 23 the more I've worked on pesticides, the more I've come
- to the conclusion that if we can make the plant
- 25 resistance, the better off we are, because the way my

- analogy is, it's like medicine but you take a shower
- in the medicine. When have you ever taken a shower
- 3 and not a drop of water has not gone where you didn't
- 4 want it to go? So, that's our issue with pesticides.
- 5 So, if we can make it internal, that would be very
- 6 powerful.
- 7 Again, our tradeoff -- and I do think OPP is
- 8 going to have to struggle with how do we quantify
- 9 that? That's again something new in this whole arena,
- 10 because you're going to have people who are utterly
- against it for their reasons. People are going to be
- 12 totally for it for their reasons. Really being able
- 13 to understand what are the societal benefits and costs
- in terms of traditional pesticide use.
- 15 MR. MCNALLY: Thanks, Gabrielle. A quick
- point on that, just on the mosquitoes, one of the nice
- 17 things about this technology is that those darned male
- 18 mosquitoes find a way to find the female mosquitoes no
- 19 matter where they are.
- Now, if you're spraying a conventional
- 21 pesticide, you're spraying where you think the
- 22 mosquitoes are. So, there's actually, potentially,
- 23 some additional benefits that some of these
- technologies have. Some of the points you made, but
- 25 also in terms -- and we'll have to see the data over a

- longer term, the success rate in terms of addressing
- 2 the issue.
- 3 MR. WOZNIAK: Let me just add. I think one
- 4 of the things that, I apologize, I should have made
- 5 clear is that I think with all the technologies that I
- 6 discussed, without exception, there's a higher degree
- of specificity involved. I mean, I think that's one
- 8 of the key criteria for making these so valuable.
- 9 That's, in many cases, defined by either RNA or DNA
- 10 sequence.
- But, in addition, we do always examine
- 12 persistence, whether it's a chemical pesticide, a
- protein, RNA, whatever. So, that's the other side of
- 14 the coin. Like with these RNAs, we already have some
- 15 quantitative data on how long they tend to last in the
- 16 environment. Compared to some of the synthetic
- 17 chemicals, it's much, much shorter.
- 18 MS. LUDWIG: Just one other addition.
- 19 Again, our other encouragement is for some of these
- 20 conversations to be taking place with our research
- 21 agencies. I have experienced about four years ago
- 22 talking to both NIFA and ARS, and they were touting
- 23 RNAi technologies like it's going to solve all of
- our pest management problems. I mean, I'm not
- 25 kidding. That's pretty much what both of them said.

- I, knowing the regulatory side, immediately
 said, okay, what's the regulatory status. They looked
- 3 at me blankly. I'm going, okay, you're saying this is
- 4 where our research should go, but you haven't stepped
- 5 back and said where are we in the regulatory world.
- So, my other plea is find ways, especially
- 7 as these new technologies move forward, to have some
- 8 conversations about what do you need on the research
- 9 end to help you make good decisions. I think that
- 10 would be helpful.
- 11 Again, similar to what Cheryl is saying, can
- 12 we avoid some of the problems we've seen if we can
- have some dialogue in advance with the research
- 14 community.
- 15 MR. MCNALLY: Chris can follow up on this in more
- detail, but it's as if you've read the report. That's
- 17 one of the findings, to have better -- are you like a
- 18 plant that Chris talked to you before to tee these
- 19 things up? But yes, that's important. I think one of
- 20 the things that Chris has done a great job in the four
- 21 years I've been in this division is that we've had
- 22 several meetings with the research entities.
- 23 We try to engage them, because they are sort
- of -- even the fellow research agencies are clueless
- about how to go down this path. So, one of the things

- 1 we want to do is to continue doing that but do a
- 2 better job and have more proactive outreach to them
- 3 rather than waiting for them to come.
- 4 Chris, I don't know if you have any from
- 5 your own experience.
- 6 MR. WOZNIAK: Well, certainly. I used to
- 7 work for ARS and I worked for the progenitor of NIFA,
- 8 CSRE, years ago. As a matter of fact, I used to
- 9 direct the biotech risk assessment grants program
- 10 there, which we still participate in. So, that
- 11 program is ARS money largely for a service to answer
- 12 the questions regulators have. So, we have FDA,
- 13 APHIS, and EPA there at the grant review for the
- 14 proposals.
- But, in addition, we also help write the
- 16 request for applications to make sure that our
- 17 questions are getting addressed. It is a competitive
- 18 environment, so not everything we want necessarily
- 19 gets funded. It's a small pot of money, but it is
- 20 significant for us.
- 21 MR. KEIGWIN: Nichelle.
- MS. HARRIOTT: I just have a quick general
- 23 question about the mosquitoes and how this all works
- for the Wolbachia and the GE mosquito. These focus on
- 25 the male mosquitoes. So, my question is, and this is

- just a clarifying question for my education, how many
- 2 females will these mosquitoes mate with, and how far do
- 3 they fly to find these females in terms of that
- 4 general efficacy of the technology?
- 5 MR. WOZNIAK: Well, the mosquito, now
- 6 specifically with Aedes aegypti, but it's true of
- 7 actually several other mosquitoes that vector viruses
- 8 -- you're looking at a fairly small range. I mean,
- 9 the maximum they probably would move, absent the
- 10 tornado or hurricane, is about 200 meters. But, in
- 11 most cases, it's actually significantly less than
- 12 that.
- So, when they're releasing, and I didn't
- point it out on that slide, but you can see somebody
- 15 that looks like they're flying a large flute, they're
- 16 blowing through a tube full of mosquitoes to blow them
- 17 up into the air. Sometimes they do it out of the side
- of a van window with like a cylinder full of male
- 19 mosquitoes. So, they'll go off and mate.
- I don't know specifically how many times
- 21 they can mate. There are some mosquitoes that will
- 22 mate once after a blood meal and then move on. But
- 23 there's just some really interesting work on
- frequencies of wing beats that control the attraction
- 25 between the mosquitoes.

- 1 Some people are actually using this now as a
- 2 possible way to disrupt this. There are mosquitoes
- 3 that will mate multiple times, and some that are
- 4 highly specific to a particular frequency mate once
- 5 and go off. So, I don't know that I can answer your
- 6 question simply.
- 7 MR. MCNALLY: We have about eight or nine
- 8 minutes left. We can go through each of these
- 9 questions. But if you just want to look at all those
- 10 that we have on the chart, or any ones in particular,
- 11 we want to make sure we hear from you today. If we
- 12 run out of time, don't hesitate to contact us directly
- in BPPD. We'd love to chat with you more about these
- 14 technologies, what they might mean to you.
- But any other feedback on these questions
- 16 from members of the PPDC?
- 17 MR. KEIGWIN: Richard.
- 18 MR. GRAGG: The second question on new
- 19 concerns, I'm sure you're already doing it. But I
- think the public is probably one of those audiences
- 21 that we want to help understand risk and the benefits,
- 22 what this new technology is, because I think there's a
- lot of times people don't get the right information.
- MR. KEIGWIN: Robyn.
- 25 MS. GILDEN: Obviously, being a nurse,

- 1 healthcare providers, nurses, doctors, various other
- 2 public health officials need to be in the conversation
- 3 on the health effects end.
- 4 MR. WOZNIAK: Any others? Oh, question down
- 5 there.
- 6 UNIDENTIFIED FEMALE: I'm just curious, what
- 7 is being done in terms of the health effects end?
- 8 There's a lot of research in terms of -- we've heard a
- 9 lot about how well these work and how well they can
- 10 control mosquitoes. But what are the plans when we
- 11 introduce these new technologies to be able to monitor
- 12 the potential human health impacts of this technology?
- MR. WOZNIAK: Well, what I can tell you is
- 14 it depends on whether you're talking about Wolbachia
- or you're talking about Oxitec. They're somewhat
- 16 different. I'll start with Wolbachia.
- 17 Wolbachia, as I mentioned, is in over a
- 18 million species. There's no doubt that you have
- 19 consumed it and will continue to consume it whether
- 20 you are eating lettuce from the salad bar or fresh
- 21 veggies from your garden or whatever. Wolbachia is in
- 22 nematodes, all kinds of other arthropods. So, there's
- a very long history of safe use with that bacterium.
- There's no evidence for any sort of infectious nature,
- 25 at least with mammals, or vertebrates, for that

- 1 matter.
- 2 As far as the Oxitec mosquito goes, again,
- 3 the only differences are there's the red fluorescent
- 4 protein I mentioned as a marker. That analysis has
- 5 actually already been done 10 or 12 years ago by FDA.
- 6 There's a document online. If you're interested, I
- 7 can send you that. Looking at things like homology to
- 8 allergens, homology to toxins, digestibility in a
- 9 monogastric mammalian stomach. So, those are the
- 10 kinds of examinations. I don't remember if there was
- an acute oral toxin of that particular state or not.
- 12 With the other protein, the tetracycline responsive
- activation protein, it's a bacterial protein, an
- original derivation, would likely already be in your
- 15 gut if you have E. coli as a resident of your
- 16 microflora.
- So, again, history of safe use, there's no
- 18 known homology with any toxins or allergens. Again,
- 19 unless you're riding a motorcycle without a helmet on,
- your chances of consuming these mosquitoes is probably
- 21 pretty low. You could get an occasional one, but I
- think the exposure side is significant.
- That's one of the beauties of both the
- 24 systems, as Bob alluded to. Number one, they can get
- into places that we can't with a spray boom. But, in

- 1 addition, they're male species looking for a female of
- 2 a specific species.
- 3 When we look at some of the conventional
- 4 chemicals for mosquito control, one of the first
- 5 questions is, we've got to test three or four species
- of mosquito. There's no point in doing that with
- 7 this. They are pretty specific. The Aedes aegypti
- 8 don't want to mate with Culex pipiens. So, the
- 9 specificity I think is one of the strongest points of
- 10 that. It's hard to fathom a way that they would be
- injurious to humans.
- 12 MR. MCNALLY: Just a quick follow up, we had
- 13 the same data requirements for microbials for this
- 14 stuff as we do for the other ones we deal with. So,
- 15 the non-target populations that might consume the
- 16 mosquitoes we'd be looking at as well for both of these
- 17 types of technologies.
- So, basically, we still follow the same
- 19 process we do for anything else that comes before us
- to make sure it's safe for humans and also safe for
- 21 the environment.
- MR. WOZNIAK: As I recall, I think there was
- a fish study involved with the original environmental
- 24 assessment as well. The predatory mosquitoes are
- actually mosquitoes that predate on other mosquito

1	larvae in aquatic situations. Those kinds of tox
2	studies were run without effect.
3	MR. KEIGWIN: Well, thanks, everybody. So,
4	we are about to break. We have four sessions this
5	afternoon. A couple of them are pretty quick. So,
6	let's try to be back in the room for 1:15. Thanks.
7	(Whereupon, a luncheon recess
8	was taken.)
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1	AFTERNOON SESSION
2	MR. KEIGWIN: Session 3, we've only planned
3	for 30 minutes, so Anna and Garland will lead us
4	through the presentation for about 15 minutes, and
5	then we'll have about 15 minutes for questions.
6	Garland, are you leading us through this?
7	Okay, I'll turn things over to you.
8	MS. WALEKO: I'm Garland Waleko. I'm a CRM
9	in the Pesticide Re-evaluation Division. I co-
10	coordinate the modernization efforts for the acute tox
11	6-pack with Anna Lowit. I'm going to talk about that.
12	For folks who don't know, the acute tox 6-
13	pack studies are required for all new AIs and all
14	formulation for purposes of precautionary labeling.
15	So, the hazard category, the signal word, re-entry
16	intervals, things like that. There's three acute
17	studies, the oral, dermal, and inhalation, and then
18	the eye irritation, dermal irritation, and dermal
19	sensitization. So, those are the six studies we'll be
20	talking about.
21	So, by way of a little bit of background,
22	OPP developed a strategic direction for new pesticide
23	testing and assessment approaches in response to the
24	2007 National Academy report on toxicology testing in

the 21st century. This is about adopting integrated

- 1 approaches to testing assessment. AIATA is the
- 2 acronym.
- 3 This is a hypothesis based, systematic
- 4 approach to integrated exposure and hazard in
- 5 assessing risk. So, it's more of a weight of evidence
- 6 approach. The goal is to use a broader suite of
- 7 alternatives, so computer-aided methods, also known as
- 8 in silico, to better predict potential hazards in order
- 9 to focus testing if testing is necessary, improving
- approaches in the current tox test to reduce use of
- 11 animals, while also expanding the amount of
- 12 information that we get, as well as understanding tox
- 13 pathways better so that we can develop those
- 14 alternatives.
- 15 Also, in response to the 2007 NAS report,
- OPP came up with guiding principles for data needs for
- 17 pesticides. This is for EPA staff. The purpose was
- 18 to provide consistency in identifying data needs while
- 19 promoting the use of knowledge that we already have,
- and focusing on what data we really need to do risk
- 21 assessment and make those decisions. The purpose is
- 22 to increase efficiency and move away from a check-the-
- 23 box kind of approach.
- 24 The purpose of this slide is to show that
- 25 there is flexibility in implementing Part 158 data

- 1 requirements. For example, we can waive data. We can
- 2 ask for more data than is specified in the CFR. So,
- 3 there is room to accept alternatives.
- 4 These are the 6-pack studies that I
- 5 mentioned. This shows how many we get per year from
- 6 2012 to 2015. So, you can see that's quite a few,
- 7 each of those studies for every and for every
- 8 formulation. Each AI could have many formulations.
- 9 So, last year, our former office director
- 10 issued a letter to stakeholders reiterating our
- 11 commitment to move to alternative methods and working
- 12 with our partners, including other government
- agencies, which I'll talk about in a little bit, our
- industry partners, as well as the NGOs, particularly the
- animal welfare groups, and highlighting the three main
- 16 activities.
- 17 So, critically evaluating, which studies we really
- 18 use to make our decisions, expanding acceptance of
- 19 alternative methods, and then reducing barriers to
- developing alternatives and also accepting them. So,
- 21 some of those barriers include challenges of data
- sharing between companies, as well as international
- harmonization in acceptance of new methods. For
- example, if one country still requires the animal
- 25 test, then registrants still have to do that test,

- 1 regardless of whether other countries accept
- 2 alternatives.
- 3 So, internally we have an acute tox 6-pack
- 4 workgroup. This has representation across the office.
- 5 We meet generally biweekly to talk about recent
- 6 progress, new projects coming up. Then, we also have
- 7 an external stakeholder group. We meet regularly to
- 8 discuss our goals and upcoming projects on how we can
- 9 cooperate.
- 10 Our last meeting was at the Society of
- 11 Toxicology meeting that was just in March in
- 12 Baltimore. That month we also had two webinars, one
- on the eye policy or eye irritation and one on skin
- 14 sensitization. We'll be having some follow-up calls
- about those. If you're interested in joining the
- 16 stakeholder group, contact Shannon Jewell to
- 17 get on the list and get the invites.
- 18 We also have a public docket where we put
- our draft guidance for comments. We also put our
- final guidance in there. The final guidance also goes
- 21 up on the website. The docket also holds our meeting
- 22 notes and minutes.
- So, back to our other federal partners,
- 24 ICCVAM, which is one of my favorite acronyms, is the
- 25 Interagency Coordinating Committee on the Validation

- of Alternative Methods. It's comprised of all 17
- 2 federal agencies that either require toxicity data or
- 3 use it in some way to disseminate information for
- 4 safety testing purposes.
- 5 The scientific support for ICCVAM is
- 6 NICEATM, which is another great acronym, the NTP
- 7 Interagency Center for Evaluation of Alternative
- 8 Toxicological Methods, this is within NIH, and they do
- 9 all the analysis or a lot of the analysis in
- 10 modeling to support investigating these methods.
- 11 They've been invaluable in this process.
- 12 Going back to the first activity, critically
- evaluating, which studies form the basis of our
- 14 decision, the acute dermal waiver quidance was issued
- 15 in March 2016. This is a collaboration between EPA
- 16 and NICEATM to determine the relative contribution of
- 17 the oral test and the dermal test to decide what
- 18 category goes on the label.
- 19 After the draft went out in March, we
- finalized it in November. And we're already receiving
- 21 waiver requests for the dermal study, given an
- 22 acceptable oral study. We're even granting those
- waivers. So, currently, we receive about 200 to 300
- dermal formulation tox tests every year. At about 10
- animals per test, that's about 2,500 animals per year

- 1 saved through this one waiver.
- 2 So, here are the three other tests listing
- 3 the OEC alternatives. They're on the right as
- 4 starting points. Then I'm going to talk about the eye
- 5 irritation BCOP, which is the Bovine Corneal Opacity
- 6 Permeability Test. We have an eye policy in AD to
- 7 accept the BCOP as an alternative to eye irritation
- 8 for antimicrobial cleaning products.
- 9 Right now we're trying to expand this to
- 10 conventionals. We have an in vitro/in vivo data set
- already provided by industry voluntarily that NICEATM
- 12 is analyzing. Dave Allen, in particular, at NICEATM
- has preliminary results already and has shared those
- 14 both through the webinars that we held in March and at
- 15 the SOP meetings.
- 16 There are some gaps in the data, so we'll
- probably need to do some perspective testing, which
- 18 we'll be discussing in an upcoming call in June to fill
- in those gaps so we can finish that analysis.
- For skin sensitization, ICATM is a group of
- 21 international regulatory bodies, so representing the
- 22 United States. So (inaudible), part of ICATM, EU,
- 23 Japan, CREA, Canada, Brazil, and China, and more than
- 24 20 other regulatory authorities met in Italy to
- 25 discuss how to come to an agreement on potential IADAS

- 1 for skin sensitization and identify the obstacles to
- 2 doing that.
- 3 One of the things to come out of that
- 4 meeting, the alternatives, including in vitro, in
- 5 chemico, in solico, so computer-based models, used in
- 6 combination with each other were actually comparable
- 7 or better than the animal tests, which is the LLNA,
- 8 the Local Lymph Node Assay, in mice.
- 9 So, the United States, Canada, and EU
- drafted an SPSF, which I don't know what that stands
- 11 for, it's something in French, to submit to the OECD.
- 12 It's basically a project proposal to say, yes, let's
- 13 go ahead and develop this performance-based guideline
- 14 to accept alternatives. It's performance based to be
- more flexible, less prescriptive, and encourage more
- 16 innovation. So, that was just accepted I think a week
- 17 ago, so there will be a lot of activity on this one in
- 18 the coming year.
- 19 So, the final area of activity is reducing
- 20 barriers to adopting alternative methods. In early
- 21 2016, EPA released a process for establishing and
- 22 implementing alternative approaches. This is meant to
- 23 be a transparent way to evaluate approaches and then
- implement them in a step-wise process. One of the
- 25 things this document addressed was the applicability

- of 6(a)(2) reporting, which came up as a concern
- 2 with alternatives, would it trigger reporting
- 3 requirements from new tests that were being developed.
- 4 It's addressed in this policy in more
- 5 detail, but basically, the Agency will only issue a
- 6 policy on accepting alternatives if it's clear how we
- 7 will use the data and how it fits in with the rest of
- 8 what we already know.
- 9 Right now, we also have a pilot that started
- in December to collect both oral and inhalation
- formulation LD50s for chemicals, along with a GHS
- 12 equation for that formulation. So, the equation is
- 13 just adding up the LD50s of the components of the
- 14 formulation. Then, the idea is to compare the two so
- 15 that potentially that equation can replace both of
- 16 those tests.
- 17 We're still collecting data, so this is a
- 18 plug to submit data if you're a registrant. The
- 19 equation is shown up there. I don't think it's that
- 20 complicated, but it looks complicated. Like I said,
- 21 that pilot started in December, and we'll run it until
- 22 we get enough data to analyze.
- Finally, we're also looking at potentially
- 24 adopting the GHS categories for the hazard portion of
- 25 the label. GHS stands for globally harmonized system.

- 1 It's what Europe and a lot of the world uses. We have
- 2 our own test categories. The challenge here is
- 3 adopting OECD guidelines that are in the GHS system
- 4 for acute tox hazard categories so then we have to cross
- 5 walk between our system and theirs, which is not
- 6 straightforward for some tests.
- 7 One potential thing that could reduce
- 8 barriers, but this would require a rulemaking process
- 9 and it's pretty complex, the science and policy issues
- 10 involved.
- So, that brings me to our charge question to
- 12 you all. In light of the resources required to write
- a rule and then move to a different system on the
- labels, all labels, what are the science and policy
- issues that EPA should consider? I think you were
- 16 given a separate update just on this topic.
- 17 Kaitlin Keller in FEAD, Field and
- 18 External Affairs Division, is leading a separate
- 19 workgroup internally just to explore the possibility.
- I think in the Q&A session, we can talk about it a
- 21 little more.
- 22 Are there any other questions?
- 23 MR. KEIGWIN: Gabrielle?
- 24 MS. LUDWIG: This is following up from what
- 25 was in the written materials that were handed out

- 1 beforehand. You've indicated this was a lot of work,
- but what I couldn't quite figure out was how much
- 3 would it shift current categorizations if you moved to
- 4 the existing international one in terms of what you
- 5 currently have? Is it just like a few compounds, a
- lot of change? I mean, I understand there's the
- 7 bigger picture, but in terms of going from a moderate
- 8 to a toxic or highly toxic to a moderate or something
- 9 like that.
- 10 MS. LOWIT: I was looking for Kaitlin back
- 11 there. The short answer is, at some point as we start
- 12 -- I think one of the science steps is actually to do
- 13 that analysis, which we haven't done. That said, the
- 14 difference between the GHS categories and the EPA/OPP
- 15 categories are not huge. There are a couple of
- 16 exceptions to that. I think inhalation is just
- 17 qualitatively different.
- They're not hugely different, but that
- doesn't mean there aren't any chemicals that wouldn't
- 20 change as we moved over. But I think it's also
- 21 realistic to think about that there are tens of
- 22 thousands of labels. None of that would happen
- overnight.
- MR. KEIGWIN: Pat?
- MS. BISHOP: Thanks, Garland, for the

- 1 update. I had a few questions and/or comments. First
- of all, on the dermal tox waiver, this, of course with
- 3 EPA, is probably just a formulation. As you're
- 4 probably aware, Health Canada Pesticide Management
- 5 Regulatory Agency did a similar analysis looking at
- 6 oral versus dermal. They came to much the same
- 7 conclusion as you did, that as long as you had the
- 8 oral data, you really didn't need the dermal because
- 9 it was very rarely ever more toxic through the dermal
- 10 route.
- 11 They also came to the conclusion that they
- 12 could issue waivers for active ingredients as well,
- 13 because they did the analysis for AIs and came to the
- 14 same conclusion.
- 15 So, my question is, is EPA considering this
- 16 to harmonize with Canada in this respect? If you're
- not, why not? That's my first question.
- 18 Secondly, I was just curious to know how
- many of the additivity equation data sets have you
- 20 received? If you haven't received any, is there
- anything we can do to help push that along? I mean,
- we work with Crop Life on trying to send out an e-mail
- to registrants to try to participate in this. So, I
- was just curious to know if you've gotten any more
- 25 since then?

- 1 Just finally on the GHS issue -- again,
- 2 we're speaking more from animal welfare, trying to
- 3 reduce animal testing. A lot of the alternatives are
- 4 designed to work with the GHS system, as you know,
- 5 versus the EPA system in which you have to do some
- 6 major -- I don't know if it's major, but they do have
- 7 to do some fiddling with the data to try to figure
- 8 categories.
- 9 So, from our point of view, we certainly
- 10 would like to see EPA move to GHS. I would think from
- industry's standpoint, having one system instead of
- 12 two or more would be beneficial to them in the long
- 13 run as well. That's just a comment from our
- 14 perspective. Let me know the answers to my questions
- if you can.
- 16 MS. LOWIT: That was a lot. I'll take the
- second one first because that's the easier one.
- 18 So, your second question was about the GHS
- 19 pilot. We've been running the GHS pilot since
- December. We're now into May. We have a whole number
- one submission. Dow AgroScience, a number of months
- ago, kindly provided the analysis of over 200 of their
- own products, so we have something, the Dow analysis,
- 24 which has actually been recently published in the open
- 25 literature, but only one submission under the pilot.

- 1 A number of companies keep reassuring us 2 that we're getting some more big data dumps, but we 3 haven't seen those yet. We're hoping that they do arrive pretty soon. We're open to anyone who has 5 questions about how to do that, because we've had a 6 few questions on that. We're happy to talk offline or 7 via e-mail on how to make that happen. 8 The first one is the harder question. So, 9 your first question was about expanding the dermal 10 formulation waiver to the dermal active ingredient 11 assays. You're not the first person to ask us that. 12 In fact, Kate Willett from the Humane Society has been
- 15 In the immediate term, we're not going to 16 make that move. That doesn't mean eventually that we 17 won't make that move, but right this moment we're not. That's almost entirely driven by our needs for our 18 19 ecological risk assessors. As we continue to develop 20 and evolve, particularly in the endangered species 21 space, we need to ensure that the data are available 22 that they may need. I think the ESA issues are 23 continuing to evolve.

We're not going to move to eliminate that

dermal tox study right now. That doesn't mean a year

asking the same question. We've had some e-mail

dialogue with her, too.

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- or two years from now we won't be in a position to
- 2 think about doing that, but right now is not the right
- 3 time.
- 4 MS. BISHOP: Just curious, how is Canada
- 5 getting past that? I mean, I don't know if you know,
- 6 but how come they don't need the data but we do?
- 7 MS. LOWIT: I think you would need to ask
- 8 them that question.
- 9 MR. KEIGWIN: Ray.
- 10 MR. MCALLISTER: I'm going to ask some basic
- 11 questions just to make sure I understand things. The
- 12 6-pack is required on a formulation basis, is it not?
- 13 Each formulation or different formulations generally
- require a new 6-pack?
- 15 MS. LOWIT: That's right. So, they come
- for the individual active ingredient but also for the
- 17 formulation.
- MR. MCALLISTER: And you have a separate
- 19 similarity clinic to compare formulations and decide
- when it's different enough to require a new 6-pack?
- 21 MS. LOWIT: That's right. So, outside of
- 22 this effort to modernize the 6-pack bringing in the in
- vitro studies but also some of the computational
- 24 approaches. We have also recently improved our SIM
- 25 Clinic approach. What's the SIM Clinic? The SIM

- 1 Clinic actually has a new name. It's a group of
- 2 scientists who look at the acute tox studies and they
- 3 look for opportunities for waivers.
- So, the real point of that group is to
- 5 compare formulation A, which exists, to formulation B
- 6 which is new and see if they're similar enough that
- 7 you can waive the study for formulation B, which is
- 8 also one of the best ways to eliminate animal testing,
- 9 is just simply to waive the study based on existing
- information. That's the function of that, and it's
- 11 been working for a long time.
- 12 MR. MCALLISTER: So, I think you've answered
- my ultimate question, which is how do those two groups
- work together.
- MS. LOWIT: They're actually working in
- 16 concert together. There's actually a lot of overlap
- 17 between the acute tox workgroup and what used to be
- 18 called the SIM Clinic.
- MR. MCALLISTER: Okay.
- MR. KEIGWIN: Any PPDC members on the phone
- 21 that want to speak to this?
- 22 (No verbal response.)
- MR. KEIGWIN: Gabrielle.
- MS. LUDWIG: So, I think two things. One is
- I appreciate that you point out that you're working on

- 1 this on a national level because if you don't have --
- 2 make life easier for the registrants or change the
- 3 number of animals used in the testing. So, I think
- 4 this is another case where working with OECD or
- 5 whatever the processes are of the government is
- 6 critical.
- 7 Then, I'm not a risk assessor so I don't get
- 8 all of this. But I do work on international trade
- 9 issues. So, from my perspective, anything that is
- 10 harmonized internationally is better than each of us
- 11 doing our own thing from an efficiency perspective.
- 12 So, even though it may be hard to go through the
- 13 transition, my gut reaction is to say go ahead and
- 14 make the transition.
- 15 MR. KEIGWIN: I'm seeing lots of nods in the
- 16 affirmative. Thank you both.
- 17 We're going to transition into our kind of
- 18 what we've called in past years as updates in a minute
- 19 type of thing. Kaitlin, why don't you come up to do
- 20 the GHS one, since it's kind of topical given what we
- 21 just discussed.
- One point that I'll make, there are some
- 23 updates in your packets which we're not going to take
- 24 comments on. One of those I just wanted to provide an
- 25 update to the update. That's the one regarding

- 1 glyphosate. Subsequent to us preparing materials for
- this meeting, Canada's pest management regulatory
- 3 agency issued an update to their regulatory position
- 4 on glyphosate.
- 5 I think the fact sheet mentions a June 2015
- 6 determination. They did reaffirm their determination
- 7 regarding the lack of a carcinogenic potential for a
- 8 glyphosate last week. So, the most recent date would
- 9 be April 2017 for Canada's assessment.
- 10 With that, Kaitlin, do you want to just give
- us a very brief overview of where we're at with GHS?
- 12 Then we'll see what questions we have.
- MS. KELLER: Hello, my name is Kaitlin
- 14 Keller. I'm in the Field and External
- 15 Affairs Division here at OPP. As was already kind of
- 16 discussed as part of the acute tox modernization, we
- 17 have an internal workgroup that was established last
- 18 year, specifically looking at the globally harmonized
- 19 system of classification and labeling of chemicals. A
- lot of this stems out of the work that was being done
- 21 and moved forward on the acute tox 6-pack, and
- 22 additionally, just because of the harmonization that
- 23 would result of it.
- So, the workgroup has been looking at
- 25 different options for GHS, implementation for

- 1 pesticide labels. At this point we've been looking
- 2 just for adopting the GHS category use for the acute
- 3 tox, the human health portion, and the physical
- 4 hazards on the label.
- 5 As a little bit of background, GHS is a
- 6 global initiative that stems out of the UN. It was
- 7 adopted in 2003. It's for classifying and
- 8 communicating chemical hazards on chemical labels and
- 9 safety data sheets, including product identifiers,
- 10 cautionary statements, pictograms, and signal alerts.
- 11 It encompasses physical health and environmental
- 12 hazards. Again, we're just looking at some of those
- 13 categories that relate to pesticides now, so no new
- label elements, just converting those that are already
- on the label to be GHS compliant.
- 16 And so, at this point, you can kind of walk
- 17 through the fact sheet. I think that was provided
- 18 already. But one thing to note is that OSHA of course
- 19 has already implemented GHS, so the SDS are compliant
- 20 with GHS. The pesticide labels can often be
- 21 inconsistent with that. So, that's one of the main
- reasons across federal government I think that there's
- an interest in harmonization there as well.
- 24 So, if there are any questions -- I'll just
- 25 kind of leave it at that, but I can take questions.

- 1 MR. KEIGWIN: Ray.
- 2 MR. MCALLISTER: Crop Life has long opposed
- 3 GHS implementation on pesticide labels. We haven't
- 4 yet found a reason to change that position. I won't
- 5 take the time to go into the reasons for that, but in
- 6 light of the work you're doing now, we will look once
- 7 more. But don't anticipate changing our position.
- 8 MS. PALMER: I just had a clarifying
- 9 question. It says that OPP is not considering chronic
- 10 health hazards that would add additional label
- 11 requirements. So, is that just because it's too much
- work and too much trouble or what's up with the
- 13 chronic?
- 14 MS. KELLER: I think that we were mostly
- just looking at converting what's currently on the
- label to GHS and not considering additional label
- 17 elements. Again, the acute tox, a lot of that stems
- 18 from the use of that from the science perspective as
- 19 well and kind of moving towards OECD being able to
- 20 accept OECD assays for those. So not requiring
- 21 additional data and not requiring additional label
- 22 elements behind it.
- MR. KEIGWIN: Komal.
- MS. JAIN: Thanks. Komal Jain from the
- 25 Biocides Panel. I just want to echo the same concerns

- 1 raised by Ray. The Biocides Panel has been
- 2 communicating on this issue with EPA for a number of
- 3 years. We look forward to having some more detailed
- 4 conversations about our concerns.
- 5 MR. KEIGWIN: Nina.
- 6 MS. WILSON: So, just to follow on, the
- 7 biopesticide industry would have some concern moving
- 8 to GHS because I think with signal word changes on
- 9 some of our types of pesticides might lose some of
- 10 that advantage that we currently have on signal words.
- MR. KEIGWIN: Dawn.
- 12 MS. GOUGE: I just feel that a move towards
- 13 GHS is the right move. It's the right direction to
- 14 move. I understand that it may place burdens and
- 15 additional work on both the Agency and industry, but I
- 16 can't believe that it wouldn't be advantageous
- 17 ultimately in the long run.
- 18 MR. KEIGWIN: I don't know if Steve Bennett
- is on the line, if the CSPA wanted to weigh in on this
- 20 one or not.
- 21 MR. BENNETT: Steve Bennett. I don't think
- we have any specific comments that I'm aware of. I
- 23 know this is something our members have paid
- 24 particular interest in, but I don't have any specific
- comments.

- 1 MR. KEIGWIN: Cynthia, did you have another 2 comment? All right, thank you -- certification and 3 training. So, Jackie and Kevin are doing this update. MR. KEANEY: You have in your package the fact 4 5 sheet for both regulations. The existing regulation 6 for worker protection has two implementation dates. 7 Many of the provisions are in place, but there's a 8 delay until January of '18 to make the full regulation 9 implemented so certain training materials and 10 compliance materials can be out and circulated. 11 We've gotten response from the states that 12 they feel there's not enough time to adequately engage 13 with stakeholders and prepare the folks that need to be prepared through compliance materials and training 14 15 materials to be able to work within that time frame. 16 So, we've had a few petitions, requests, a 17 number of states made requests, NASDA has made 18 requests to essentially change the second date, push 19 the date out. We acknowledged the receipt of the 20 letters and receipt of the requests from NASDA and as 21 yet have not reached a point where we are at a 22 decision point for that.
- 23 The certification regulation is on hold as 24 far its implementation date is subject to review. 25 It's on hold until May 22nd. We've also gotten a

- 1 number of responses from major stakeholder groups
- 2 essentially supporting what we did between proposal
- 3 and final. In the proposal, we focused on 21 areas of
- 4 change. In the final, as a result of the comments,
- 5 very insightful comments from state groups, we moved
- 6 away from the proposal position in 15 of those 21
- 7 issues.
- 8 The Association of Pesticide Control
- 9 Officials have sent letters complimenting us on that
- 10 essentially cooperative or collaborative federalism in
- 11 making those changes and making it much more flexible
- 12 and essentially doable in their assessment.
- 13 We've gotten that type of public support
- 14 from the National Pest Management Association, and in
- 15 a certain way from NASDA, and from the National Aerial
- 16 Applicator Association. So, I think we've adequately
- 17 responded to comments to create a much more flexible
- and appropriate time frame for implementation of that
- 19 regulation.
- The Pesticide Policy Coalition essentially
- 21 supports the position we arrived at but had some
- 22 concerns about the minimum age requirements. So, they
- 23 were requesting an extension of the implementation
- 24 date until we could address -- they were asking us to
- 25 address the minimum age requirement.

- 1 So, there's a lot of things on the table for
- 2 us with both of those regulations. Obviously, they'll
- 3 be part of the response, I suspect, tomorrow as far as
- 4 regulatory review. We're obviously open to the
- 5 suggestions that have been sent.
- 6 MR. KEIGWIN: Thanks, Kevin. Question or
- 7 comments on either of these? We'll start with Wayne,
- 8 then Jim, then Virginia.
- 9 MR. BUHLER: Thank you, Kevin. I appreciate
- 10 the updates. Comment on one and a question on the
- other. First the comment on WPS from a trainer
- 12 perspective. It seems very difficult, challenging at
- 13 the very least, to train on the implementation of the
- 14 applicator exclusion zone.
- 15 I know that isn't an item until 2018 for
- 16 full implementation, but I just want to go on record
- as perhaps an organization, and personally as a
- 18 trainer, that it would be very difficult for us to be
- able to reach a point in which that could be
- 20 communicated clearly. I think it would be rather
- onerous even from the enforcement standpoint. So,
- it's my hope that EPA would reconsider either removing
- 23 or adjusting that.
- 24 MR. KEANEY: That has been raised by a number of
- 25 commenters, and obviously we'll be considering that.

- 1 We do sympathize with the complexity of the enforcing
- 2 or training on that.
- 3 MR. BUHLER: Thanks. The question for the
- 4 certification rule is in the middle of the page you
- 5 have a bullet item under final changes that non-
- 6 certified applicators under supervision would go
- 7 through an enhanced pesticide safety training or other
- 8 qualification. What is meant by that? Is it a
- 9 separate program? Is it something that's considered
- 10 being developed by states?
- 11 MR. KEANEY: It's training that's quite similar
- 12 to the handler training under the worker regulation.
- MR. BUHLER: But it is separate and
- 14 distinct?
- 15 MR. KEANEY: It's under the certification so it's
- 16 separate and distinct, but it's essentially the type
- of training you get as a handler under worker
- 18 protection.
- MR. BUHLER: Okay, thanks.
- 20 MR. KEIGWIN: Jim, then Virginia, then Dawn.
- MR. FREDERICKS: Thanks, and thanks, Kevin,
- 22 for the report. On behalf of the National Pest
- 23 Management Association, you mentioned our support of
- the final rule. I think that I just want to publicly
- 25 commend the Agency for the process. I think in this

- 1 case the process worked. We saw a robust comment
- 2 period and recommendations from various stakeholders.
- 3 Many of those were incorporated in the final rule
- 4 which allowed for more flexibility and a more workable
- 5 rule. So, thanks for that.
- 6 MR. KEIGWIN: Thanks, Jim. Virginia, then
- 7 Dawn, then Valentin.
- 8 MS. RUIZ: As a stakeholder who has been
- 9 engaged in the rulemaking process for the WPS and also
- 10 the Certified Pesticide Applicator Regulation, it
- 11 certainly has not been a quick process. Personally, I
- 12 have been engaged for 16 years in this rulemaking.
- 13 Through that time, I've seen extensive engagement of
- 14 very diverse stakeholders.
- I would disagree that anything in these
- 16 regulations are new or surprising or onerous. I
- strongly oppose any delay in implementation in worker
- 18 protection. EPA is the only agency that has
- 19 jurisdiction over worker protection for a work force
- 20 that is very vulnerable, very much in need of enhanced
- 21 information and training.
- So, I would strongly urge the Agency not to
- 23 delay implementation. I think 20 years is already
- long enough for this community to have waited for
- 25 these improved safety provisions. I also think that

- 1 further delay in implementation would put the Agency
- 2 at risk for violation of the Administrative Procedure
- 3 Act and FIFRA. Thank you.
- 4 MR. KEIGWIN: Dawn, then Valentin, then Amy.
- 5 MS. GOUGE: Thank you. Kevin, I'm a bit
- 6 worried at the prospect of a delay with regard to the
- 7 minimum age. I just wondered if you wouldn't mind
- 8 expanding just a little bit on the practical options
- 9 for establishing certification programs in Indian
- 10 land.
- 11 MR. KEANEY: Well, prior to this, there were some
- forced choices to be made for establishing programs in
- 13 Indian country. They could work with existing state
- 14 programs, and they felt that compromised their
- 15 sovereignty. They could establish their own or they
- 16 could work with EPA.
- 17 We made it more clear how we can work with
- 18 the tribal programs, federal to sovereignty to
- 19 sovereignty as it were. So, it's in the clarifying,
- 20 clarifying what practice was a number of choices, some
- of them unfavorable to the tribal rulers.
- MR. KEIGWIN: Valentin, then Amy, then Liza.
- MR. SANCHEZ: Hello. As a former farmworker
- and as the son of farmworkers, I'm truly happy to see
- 25 that we're continuing to look for ways to protect

- 1 farmworkers. I know that for 20 plus years there were
- 2 no actions to protect farmworkers, including their
- 3 family members. So, we have 2.5 million farmworkers.
- 4 If you have family members, that's a pretty big
- 5 number. Some of them are migrants; others are
- 6 seasonals.
- 7 Also, a significant percent of them speak
- 8 indigenous languages from Mexico and Guatemala. So, I
- 9 think it is very crucial that we continue to look for
- ways in which we can protect them, because for many,
- 11 many years they have been forgotten.
- 12 So, I just want to say thank you, and I hope
- that we continue down this road so we have some
- 14 protections for farmworkers and their family members.
- 15 Thank you.
- 16 MR. KEANEY: Thank you. I would point out that
- 17 the revised regulations try to add more training
- 18 elements that would be addressing take-home exposures
- 19 and protecting families from take-home exposure.
- 20 Also, we are committed to providing training in a
- 21 manner that's understood, which means the language is
- 22 understood. So, in the development of materials, it
- 23 will obviously be in English and Spanish, but
- obviously as well in other languages that we know
- exist as labor segments that need to be reached.

- So, we did have in the older regulation a
- 2 couple of training packages for indigenous language
- 3 speakers that were working on orchards. So, we'll
- 4 continue that, obviously. We do have a long-term
- 5 cooperative agreement with University of California-Davis
- 6 combined with Oregon State to develop materials.
- 7 It's called the Pesticide Educational
- 8 Resources Collaborative. If you go on their web site,
- 9 you can see the pretty extensive array of training
- 10 materials that have been developed and will continue
- 11 to be developed. It's capable of being downloaded and
- 12 used for anyone who needs them. That will go on and
- will expand into training materials for the
- 14 certification regulation as well.
- 15 MR. KEIGWIN: Amy, then Liza, then Richard.
- 16 MS. LIEBMAN: Thanks, Kevin, for giving us
- 17 the update. I just want to also echo a little bit of
- 18 what Virginia is saying. I've been involved with a
- diverse group of stakeholders in a really important
- 20 process that the Agency undertook.
- 21 So, starting in 2001, I was at a stakeholder
- 22 meeting where there was industry, farmworkers,
- 23 different groups all impacted by how pesticides impact
- 24 workers. I continued as a stakeholder throughout the
- 25 process.

- In 2006, there was a subcommittee of the
- 2 PPDC that was beginning to address worker protection
- 3 safety. I participated in that, again along with a
- 4 diverse group of stakeholders from many different
- 5 perspectives.
- 6 So, while frustrated at times with the speed
- of the revision of the WPS, that process is incredibly
- 8 important as we look at what we have today because we
- 9 got so much input. The Agency got so much input along
- 10 the way. It got input when you release the comments
- 11 for public comments.
- 12 What you have come out with, really, is an
- important step forward for the workers who put food on
- our table. Quite frankly, it's a moderate step
- 15 forward. It's not a radical new rule. It's not a
- 16 radical revision. There are some really, really
- 17 critical pieces, such as a minimum age, training,
- 18 notification, all very, very important improvements
- 19 that we can stand behind.
- I would hope that every single stakeholder
- in this room would rally behind this rule that has
- come out and is designed and is the only one, as
- 23 Virginia pointed out, that is protecting farmworkers.
- 24 So, I'm a little bit baffled at the calls for some
- delays when we look at the painstaking process that

- 1 both stakeholders and the Agency went through to get a
- 2 rule out. So, I really advise the Agency to move
- 3 forward with the time table that you put forth. I
- 4 think there's a number of stakeholders out there that
- 5 are here to help you as you implement it.
- There will be bumps. There will be some
- 7 questions. There will be challenges. No one says
- 8 it's easy. But if we're about protecting workers,
- 9 which is what is required under the law, then we need
- 10 to move forward on this. There should be actually no
- 11 delay. I would hope that everyone in this room would
- 12 rally behind this.
- I mean, I'm dumbfounded that anyone is
- 14 calling for a delay. It's really upsetting. I really
- want us to remember this process that you went
- 16 through. Remember the science that's behind this and
- 17 the data that's behind all this. Know that we have a
- 18 rule that involves input from everybody, and we need
- 19 to get it out there.
- 20 MR. KEIGWIN: Liza, then Richard.
- 21 MS. FLEESON TROSSBACH: Thank you. I have
- comments on both WPS and C&T. First of all with the
- Worker Protection Standard, I would agree. I don't
- think any stakeholder, and I know I can speak for
- 25 state lead agencies, we absolutely support enhanced

- 1 worker protection, worker safety issues for
- 2 farmworkers, for all occupational users and users of
- 3 pesticides.
- 4 I think one of the issues for state-lead
- 5 agencies and the idea of the implementation date is
- 6 our ability to have access to the individuals who need
- 7 to be in compliance. When the rule went into effect
- 8 or was going through this process, we were told we
- 9 were going to have the resource materials that we need
- in a timely manner.
- 11 Unfortunately, that process took a little
- 12 bit longer. So, because of that, our ability to have
- access to your agricultural producers and farmworkers
- 14 and those folks were delayed, and we did not have as
- much access. It's just not as easy as here's the
- information, go forth and start to implement this.
- 17 There's a compliance assistance process that's needed.
- 18 We firmly believe in educated communities, a
- 19 compliant community. State lead agencies are out
- doing inspections and doing those investigations,
- 21 doing the work we need to, but it takes time to come
- into compliance and to bring people into compliance.
- While some of the issues or the changes may seem
- logical to us, there are concepts that are difficult
- 25 for people to understand.

- 1 The AEZ is a perfect example. That
- 2 was not included in the original proposal. When the
- 3 final rule came out, that was a complete change, and
- 4 it took us time to figure that out. So, now we're
- 5 trying to make people understand how to do what they need
- 6 to do and come into compliance.
- 7 So, it's not a matter that it's not out
- 8 there and we're not working towards it, but it takes
- 9 time. It took time to get the rule in place, and it's
- going to take time to get it fully implemented to get
- 11 people into compliance. I think that's the
- 12 perspective from the state lead agencies.
- We're not saying don't implement the rule,
- don't put it into effect, don't make people start to
- work towards that. But be realistic in that it's
- going to take some time to reach those growers of
- 17 agriculture producers out in the field.
- So, states are out there doing it now.
- 19 States have the ability to exercise prosecutorial
- 20 discretion. I mean, we're doing inspections and
- 21 investigations. But depending on the situation, there
- 22 may or may not be action, because we understand -- we
- 23 believe that you need to educate people first and go
- from there. So, that's for the Worker Protection
- 25 Standard.

- 1 For the C&T update, I want to echo what many
- folks have said. We appreciate the Agency's
- 3 willingness to work with stakeholders. The initial
- 4 proposal to the final had dramatic changes. Much more
- 5 flexible. Addressed many of the issues that state-
- 6 lead agencies brought up.
- 7 As far as the delayed implementation, once
- 8 again I think state lead agencies support enhanced
- 9 competencies for applicators. Want to ensure that
- 10 people are applying pesticides properly and providing
- 11 for human health in the environment.
- 12 But there's a lot of uncertainty right now
- with state lead agencies. One, even though the
- 14 certification training rule has been out since early
- 15 December, it's quite complex. States are still going
- 16 through the process of trying to determine what they
- 17 will need to do in their own states to make changes to
- 18 come up to that minimum baseline.
- 19 There are resources issues. Funding is
- 20 uncertain for the state tribal assistance grants,
- 21 which many states rely on to be able to have resources
- 22 towards putting that into place. I think that comes
- 23 into play.
- 24 I don't think that delaying the
- 25 implementation is going to impact the ultimate result.

- 1 I believe that state lead agencies have had
- 2 certification programs for many, many years, very
- 3 robust programs that have evolved substantially, many
- 4 of which are well beyond the current requirements or
- 5 the requirements in the new C&T.
- 6 So, I don't feel like the program is going
- 7 backwards in any way if there is a delayed
- 8 implementation. The reality is that many states will
- 9 have to go through the regulatory process, which,
- 10 depending on the state, can take a very long period of
- 11 time.
- 12 So, the current time frame, while it may
- seem like a long time to be able to come into
- 14 compliance in government time, it may not necessarily
- 15 be adequate. I think there are a couple issues that
- 16 probably need some more discussion, like the minimum
- 17 age requirement. I think probably in some
- 18 circumstances you will have full support; in others,
- it may not be right for that particular state. I
- 20 think some of those issues probably need to continue
- 21 to be discussed.
- 22 So, in that particular case, I just don't
- think delaying is going to negatively impact the
- 24 certification program on a national level, because I
- 25 believe the certification program is quite evolved and

- is doing a good job now. As we move forward, we'll
- even do a better job in the future. Thank you.
- 3 MR. KEIGWIN: Richard.
- 4 MR. GRAGG: I can appreciate all of the
- 5 conflicts and different things that go into making all
- of this work. But I just wanted to say two things. I
- 7 think the EPA is about protecting the environment and
- 8 human health, then I would expect that the most urgent
- 9 about protecting the people who are ground zero from
- 10 these pesticides versus people who are on the consumer
- end that may only be getting a little bit.
- 12 Then, secondly, I think worker protection
- 13 standards and certifications is even more important
- 14 and urgent based on our previous discussion when we
- 15 want to talk about pollinator protection. These are
- the people that are going to be spraying and
- 17 manipulating and using the stuff out in the field.
- 18 We're going to rely on them for the pollinator
- 19 protection issue, ultimately.
- MR. KEIGWIN: Okay, thanks, Kevin. So, the
- 21 next update is on resistance management. Wynne and
- some others from BEAD will come on up.
- MR. JONES: Hi, I'm Arnett Jones from BEAD,
- 24 Biological and Economics Analysis Division. We have
- 25 some background materials and would make ourselves

- 1 available for some questions. I'll give you an update
- on some of the work we're doing in resistance
- 3 management.
- 4 As you know, resistance has become a very
- 5 important economic and biological issue in terms of
- 6 effectiveness of some of these compounds that we
- 7 license for pest control. As a result of that, we
- 8 undertook two initiatives. One was a general labeling
- 9 initiative, which is an update of a 2001 pesticide
- 10 registration notice, a PR notice. Nikhil
- 11 can perhaps go into some detail on it if you want a
- 12 little more detail.
- But basically, it's a very strong
- 14 encouragement for companies to put the mechanism of
- 15 action on their labels in a very distinct and clear
- 16 way so that growers would have access to that. That
- information would be very useful to them in terms of
- 18 understanding the mode of action of their particular
- 19 compound and how they may consider to choose to rotate
- their chemistries to practice some pest resistance.
- Do you have anything to add, Nikhil?
- MR. MALLAMPALLI: Hi, everyone. My name is
- 23 Nikhil Mallampalli, entomologist with BEAD. This PR
- 24 notice pretty much mirrors the 2001 PR notice. It gets
- 25 into more detail with the guidance that registrants can
- put on their labels. It's limited to agricultural

- 1 pesticides. We've taken comments on this and the other
- 2 PR notice that Skee will mention in a minute. We've got
- 3 about 19 comments on this PR notice, very good comments
- 4 that we think enhance the guidance. We're hoping to
- 5 finalize the guidance sometime this summer.
- 6 MR. JONES: Thanks, Nikhil. The public
- 7 comment was very important for that one, as well as
- 8 for the second PR notice that deals with herbicides.
- 9 That's guidance on pesticide registrants on herbicide
- 10 resistance, management, labeling, education, training,
- 11 and stewardship. Like the more general labeling
- notice, this notice went out for public comment. I
- don't remember how many comments we got.
- 14 UNIDENTIFIED FEMALE: Twenty-seven.
- MR. JONES: Twenty-seven, thank you.
- Anyway, as with the labeling, the suggestions were
- very useful, and we actually changed some of the ways
- 18 we were thinking about this in terms of how to more
- 19 proactively manage resistance for herbicides.
- If you think about where we are at EPA in
- 21 terms of having basically a label as our instrument,
- 22 we have made an effort to reach out to a lot of
- 23 stakeholders and grower groups, Wheat Science Society

- 1 and others, USDA, trying to get sort of collective
- 2 wisdom and to get the right people behind the
- 3 initiative to get growers to be more active in
- 4 practicing herbicide resistance.
- 5 Again, with herbicides, there basically
- 6 hasn't been any new real mechanisms of action in
- 7 something like 30 years or something like that.
- 8 There's a lot of emphasis on the genetically-modified
- 9 crops in terms of their importance in managing
- 10 resistance.
- 11 There have been some unfortunate outcomes as
- 12 a result of that. So, we're just trying to be more
- proactive and are trying to do it in a way that we
- think is responsible and will be effective in terms of
- 15 getting the result that we want at the grower level.
- Anything to add, Wynne?
- MS. MILLER: No. I think the goal for that
- 18 PRN, like Nikhil mentioned, is to try to release it
- 19 sometime this summer.
- 20 Folks may recall for that herbicide
- 21 resistance management PRN, we had suggested three
- 22 categories that center around these elements of
- education, stewardship, training, and the labeling.
- 24 Depending on which category you fell into, 4 elements
- would apply, or 8 elements, or all 11 elements.

- 1 Surprisingly, we got a lot of people coming back and
- 2 saying hey, forget having three different categories.
- 3 Let's just focus on one, focus on the high, and make
- 4 it apply to all those modes of actions.
- 5 So, that's kind of what we're looking at
- 6 internally, how to craft that. Again, we hope to
- 7 release sometime in mid-summer.
- 8 MR. JONES: Are there any questions on that?
- 9 MR. KEIGWIN: Richard, I'm not sure if your
- 10 card is up from before? All right, Robyn and then
- 11 Steven.
- 12 MS. GILDEN: Thank you for the update. Just
- 13 to clarify, this is all just for what the registrants
- are going to be putting on the label? Is there any
- other kind of techniques that are going to be
- 16 associated with best management practices like trap
- 17 rotation?
- 18 MR. JONES: There are two notices. One is a
- 19 general labeling, and that is limited to labeling.
- 20 But it also has some best practices as well.
- Nikhil, you want to elaborate on that?
- MR. MALLAMPALLI: We focus on the pesticide
- 23 rotation, rotating modes of action. That's repeated
- for all pesticides. But we do mention suggestions to
- 25 registrants. Registrants can choose to put whatever

- 1 other best practices they want to on their label. We
- 2 make some suggestions, such as using crop rotation
- 3 where relevant. Scouting is suggested throughout,
- 4 things like that. I don't know if that is what you
- 5 were getting at, but there is some of that in the PR
- 6 notice.
- 7 MS. MILLER: Actually, for the herbicide
- 8 resistance management PRN, it went beyond labeling.
- 9 It also talked about thinks like resistance management
- 10 plans as well. So, that's where we got into the
- 11 stewardship, the training, and again beyond the
- 12 labeling.
- 13 MR. JONES: There's also, if you look at
- some of our recent decisions, there are terms of
- 15 registration related to reporting resistance, early
- identification, remediation, and things like that.
- 17 So, again, we are limited to labeling in some specific
- 18 ways, but we've really tried to leverage some other
- 19 tools that we have, including the other organizations
- 20 that put out the best practices, as well as when we
- 21 think it's appropriate, the terms of registration on
- 22 the stewardship end.
- MR. KEIGWIN: Steven, then Marc, then Dawn.
- 24 MR. COY: So, I think that addressed some of
- 25 my concerns. I was thinking, what did you do to

- address the prophylactic use of insecticides?
- 2 Herbicides are not so much used, but I know
- 3 insecticides are frequently put on as a just-in-case
- 4 type scenario.
- 5 MR. MALLAMPALLI: So, I think back to what's
- 6 in our insecticide section. The general labeling PRN,
- 7 of course, covers insecticides. We say that
- 8 registrants should put on their labels that growers
- 9 should scout before and after an application. So, as
- 10 a suggested bit of guidance that registrants can put
- on their labels, we have put that out there in the
- 12 PRN.
- 13 As biologists, we know that sometimes within
- 14 the pest, they're going to need to apply on a
- 15 calendar basis. So, that's something that extension
- 16 would have to play a role in in advising growers. But
- 17 to the extent that the label can have that, we would
- 18 like the label to make sure to say to growers scout
- 19 before and after. Don't just apply prophylactically.
- MR. JONES: And these are pesticide
- 21 registration notices. They're advisory in nature.
- One thing I will tell you, it's a timely question.
- 23 Yesterday we met with the Insecticide Resistance
- Action Committee. We've taken on herbicides first
- 25 because we had some painful examples of the

- 1 marketplace frankly not doing a great job in terms of
- 2 managing resistance there.
- 3 But in terms of prescriptive stuff on the
- 4 label related to prophylactic use, there's nothing
- 5 like that. But we are trying to -- these are advisory
- documents. We're trying to raise a level of
- 7 awareness. We took on herbicides first because that
- 8 was the case that was calling out for it. We have
- 9 thought about insecticides, but we haven't gone down
- 10 the road with them the way we have with herbicides.
- MR. KEIGWIN: Marc.
- 12 MR. LAME: So, I think you've answered a
- 13 number of things that I'm concerned about, again which
- is we look at the registration, which, for all intents
- and purposes, is permitting and then monitoring for
- 16 compliance, enforcement, and technical assistance.
- Because this is advisory, you're covering most of
- 18 those things except for enforcement.
- 19 I quess at some point if I was remaining on
- the committee, I would like to hear more about, since
- 21 this is advisory, what the different user groups or
- 22 industries are doing with regard to some type of
- enforcement, market-based enforcement or something.
- Obviously not Agency-based because you guys aren't
- 25 going there with resistance.

- 1 My expertise is in diffusion of innovation,
- 2 how to get communities to adopt new things. I guess ${\tt I}$
- don't see that diffusion process playing out here.
- I've seen some of the same old stuff that sounds nice
- 5 but it's probably going to have to wait until things
- 6 go away and maybe come back some day or never come
- 7 back before something is done.
- 8 I think both for the growers and for
- 9 industry itself, it would probably be best to have a
- 10 more organized and well-managed effort to diffuse the
- innovation of prevention in resistance management.
- 12 I'm not seeing it.
- 13 So, I would recommend that in the future as
- far as diffusion of innovation, particular to public
- 15 health. I know that these are not public health
- 16 insecticides. I mean, my colleague will mention this
- 17 no doubt, but we're reaching a crisis stage. At what
- point does society say that we're going to get tougher
- on these things for human health.
- 20 My good friend Ray over here might be
- 21 surprised to know that I do consider some of these
- pesticides as valuable tools. I would like to see
- 23 them preserved. But it's going to take more than a
- 24 tacit response. So, just my comments.
- 25 MR. JONES: I mean, we struggled with this,

- 1 okay. We've done the best we can in terms of trying
- 2 to get the right people educated. We've seen some
- 3 movement out there in terms of grower behavior.
- 4 Somewhat related to what you're talking about, some of
- 5 the registrations now are time limited. Part of the
- 6 reason for that is because of the resistance potential
- 7 for repeating the glyphosate experience, for example.
- 8 So, we're looking for creative ways to use
- 9 the little bit of power that we have. I think we've
- 10 been pretty successful in getting the USDA and
- 11 resistance action committees and the Wheat Science
- 12 Society and the Entomology Society involved in this.
- But we hear you, and we'll take that into
- 14 consideration. If you take a look at the terms of
- 15 registration, there's a little bit in there. There's
- 16 some books in there that are a little more solid.
- 17 They have some teeth in them in terms of concern for
- 18 the problem.
- 19 MS. KUNICKIS: I just want to
- respond. In case you weren't aware, there's a huge
- 21 effort by some of the professional societies to do
- outreach on resistance management. For example, the
- 23 Wheat Science Society, over the last year, have been
- 24 holding listening sessions with growers and other
- 25 stakeholders on how to implement and get information

- 1 out about the issue of resistance management.
- 2 Next week or the week after in Colorado is
- 3 the Global Resistance Challenge. It's an
- 4 international meeting where the whole week will be
- 5 focused on resistance management. Lots of folks will
- 6 be there. Lots of conversation.
- 7 USDA and EPA will be participating with the
- 8 Wheat Science Society to do all kinds of outreach. A
- 9 lot of documents have been prepared. Informational
- 10 pamphlets, et cetera, have been put out and also by
- 11 some of the grower groups. So, there is a lot of
- 12 effort. We'd be glad to work with you or engage you
- if you want information about that.
- 14 MR. LAME: Well, I would be happy to help.
- 15 I don't think I need much more information on it. As
- 16 much as I hate to say it, this is less of an educator
- thing, as a former extension person and current
- 18 entomologist, enthusiastic.
- 19 Peer development is the most important
- 20 thing. So, the grower group thing is good. I'd just
- 21 like to see a tougher response. Last time you
- 22 mentioned the limits on registration. I think that's
- 23 the best thing the Agency can do, or probably the only
- 24 thing the Agency can do at this point.
- 25 MR. JONES: Thank you Sheryl for adding on

- 1 to that. The societies, you talk about behavior and
- 2 economics being a big factor. You go to these
- 3 meetings now and there's social scientists that are
- 4 giving presentations (inaudible) sociology is back to
- 5 sophomore college. But they turn out to be these
- 6 extremely interesting talks about how to motivate
- 7 behavior. I think the societies have done a great job
- 8 in terms of getting the word out and spreading the
- 9 word. We're starting to see it in the behavior now of
- 10 the growers.
- 11 MR. KEIGWIN: So, I'm just going to go with
- 12 the rest of the cards that are out. We've got two
- other topics to cover before the break. So, Dawn,
- then Donnie, then Gabrielle.
- 15 MS. GOUGE: Thank you. I just wanted to
- 16 raise an issue. Marc alluded to the public health
- 17 crisis not being resistant to mosquito adulticides.
- 18 So, I wanted to put that on your radar if it's not
- 19 already on your radar.
- We have a small army of people around the
- 21 country right now ramping up to do bottle bioassays to
- see if they can kill, having had at least a two or
- 23 three years recently when it's been a very serious
- 24 struggle to kill mosquitoes on the wing with, let's
- 25 face it, two modes of actions that we have available.

- I have an office next to Peter Allsworth
- 2 (phonetic), who is a cotton entomologist, and he brags
- 3 openly about the rules and regs that you have to stick
- 4 to with regards to how many times you can use
- 5 pyriproxyfen twice in a season. And he rotates it out
- 6 with this, that, and the other. Meanwhile, the
- 7 mosquitoes are being nuked. We try not to use the same
- 8 thing for more than two years. Those applications can
- 9 happen maybe 15 or 16 times in one season.
- 10 So, it's not that we're looking for
- 11 resistance to be a crisis. It's already a crisis.
- 12 We're trying to find pockets of areas. We just know
- 13 that basically the choice that we have right now, we
- need to be relying on other things. No need to carry
- on doing what we've been doing. It's not working.
- 16 Thank you.
- 17 MR. KEIGWIN: Donnie, then Gabrielle, then
- 18 Ray.
- 19 MR. TAYLOR: This is more information than
- anything else. One of the soybean groups and the
- 21 leading wheat scientists from across the United States
- 22 has created a program called Take Action. Actually,
- 23 the website is take action on weeds dot com. I highly
- 24 recommend it. It's a great program. Talks about
- 25 different groups and categories of chemistries that

- 1 are available out there.
- 2 MR. KEIGWIN: Gabrielle, then Ray, then
- 3 Cynthia will be the last one for this session.
- 4 MS. LUDWIG: Just what I said I think the
- 5 last time, just a reminder that we have the same issue
- in perennial crops. You can't rotate. They're kind
- of a little stationary. So, as you're thinking about
- 8 things, keep that in mind.
- 9 Then I do think, and this is beyond EPA's
- scope, but as has been alluded to, the issue is how do
- 11 you get growers to change when at the end of the day,
- 12 they're going to go with what's most effective and/or
- 13 what's cheapest.
- In the almond industry, for us on
- fungicides, we've been drumming in rotate on
- 16 herbicides. There are a limited number of tools that
- 17 work against certain weeds. So, you kind of go back
- 18 to them.
- 19 So, it is a more complicated issue. I think
- 20 EPA is trying to do what they can from their
- 21 perspective, but this is an issue that at least the ag
- groups have all been struggling with for quite some
- 23 time. How do we get growers to rotate when at the end
- of the day whatever works well is going to be the
- 25 first choice. So, we have to continue to educate on

- 1 that.
- 2 MR. JONES: If I could just respond to that
- 3 quickly, one of the things that the grower groups can
- do is to reach out to the societies, to the entomology
- 5 and phytopathology and science societies and try to
- 6 make that connection.
- We find that when we have the three
- 8 different groups talking together, the wheat
- 9 scientists, and the entomologists, and the plant
- 10 pathologists that a lot of times there some
- 11 connections that wouldn't be made otherwise. So, I
- 12 would encourage the growers to reach out to the
- societies as well to help complete the loop.
- MR. KEIGWIN: Ray.
- MR. MCALLISTER: Just a couple of quick
- 16 questions. What are the next steps for the PR notice
- 17 on herbicide resistance?
- 18 MR. JONES: The comments have been
- incorporated. It's in final review now. It should be
- 20 coming out this summer some time.
- 21 MR. MCALLISTER: Will there be an
- 22 opportunity to see another final draft?
- MR. JONES: Well, it's going through its
- 24 final review right now. We've done the public
- 25 outreach and the public comments. So, I don't think

- 1 it's scheduled for another review before it goes out.
- 2 MR. KEIGWIN: Cynthia.
- 3 MR. PALMER: So, echoing Steve Coy on
- 4 prophylactic uses, I think it is a challenge with so
- 5 many fungicides and insecticides built in the seed
- 6 coatings. To recommend scouting or other best
- 7 management practices sometimes the growers don't have
- 8 that choice of simply scouting and then planting
- 9 different seeds, because it's coated on to the seeds.
- So, I'm wondering to what extent you're
- working with the seed industry to make available seeds
- 12 for all the different crops that actually do not
- 13 contain the fungicides and insecticides.
- MR. MALLAMPALLI: That's an interesting
- thing to consider in the future. We're not working
- with the seed industry on this issue, as far as I
- 17 know. The scope of the labeling PRN, I think both
- 18 PRNs, is really intended to cover conventionally-
- 19 applied pesticides sprayed, or genetically-modified
- 20 herbicide tolerance crops would be covered as well, by the
- 21 herbicide PRN. The seed coating issue is definitely a
- 22 legitimate concern, I think.
- MR. JONES: We did -- and that question has
- 24 been raised about the seed coatings and resistance.
- 25 We did talk to the insecticide resistance action

- 1 committee about that. We've also done some work. We
- 2 can't find any direct relationships from the
- 3 resistance side for some of the seed treatments that,
- for example, might be followed up by foliar treatment
- 5 earlier on in the season.
- But we are not working with the seed
- 7 industry on that. I mean, we're considering this and
- 8 we're considering resistance in a risk benefit
- 9 framework because we're going through registration
- 10 review and, when appropriate, we think in the new
- 11 chemicals as well, new active ingredients.
- 12 MR. KEIGWIN: Okay, thanks. So, the last
- 13 two topics, Anita Pease and Marietta Echeverria will
- lead us through those two discussions.
- 15 MS. ECHEVERRIA: Good afternoon, my name is
- 16 Marietta Echeverria. I'm the director of the
- 17 Environmental Fate and Effects Division. So, we are going
- 18 to briefly go through two updates. We provided
- 19 information in the packet. So, the first topic is around
- 20 mixture toxicity or a.k.a. synergy.
- So, this issue became prominent about a year
- and a half ago when we discovered that there were
- 23 claims being made to the patent and trade office that
- 24 chemicals in combination that we were considering for
- 25 registration, the companies were making claims of

- 1 synergy.
- 2 We have had a longstanding practice in the
- 3 program to evaluate single active ingredients in terms
- 4 of our risk assessments. The reason being is based on
- 5 the information that we have, actual synergistic
- 6 interactions. They're actually a really rare
- 7 occurrence based on the way that we regulate
- 8 pesticides.
- 9 However, since these claims were being made,
- 10 we felt that it was appropriate to consider the
- information and to determine whether or not it was a
- 12 source of information that was relevant for risk
- 13 assessment.
- So, we've been piloting a process that walks
- 15 us through a screening process to determine whether or
- 16 not information supporting those claims is actually
- 17 relevant for risk assessment purposes. To the extent
- 18 that there is relevant information for risk assessment
- 19 purposes, we have asked companies to report that
- information to us. Then we've gone through and we've
- 21 actually evaluated that.
- So, to date, we can report that we've looked
- 23 at approximately eight cases on this issue. For the
- 24 majority of cases, what we found is that those data
- are actually of little value in terms of risk

- 1 assessment. So, in the majority of cases, there's
- 2 actually little underlying information that would
- 3 actually make it into a risk assessment.
- 4 There's actually two cases where we saw
- 5 potential relevance with respect to the information. In
- 6 those two cases, we made a determination it was most
- 7 appropriate to use our guideline testing methodologies
- 8 to go to direct formulation toxicity testing. That
- 9 does provide relevant information for risk assessment.
- So, our goal is to continue piloting this
- 11 process through the registration program and as we learn
- 12 and we get a number of cases under our belt to
- 13 actually make some recommendations and come out with a
- 14 white paper and position in terms of the value of this
- data from a risk assessment perspective.
- 16 So, with that, I think we'll open it up for
- 17 questions.
- 18 MR. KEIGWIN: Steven, then Nichelle, then
- 19 Jake. Cynthia, I don't know if your card is up or
- 20 not.
- MR. COY: First clarify for me. These eight
- cases of synergy, were they cases that registrants
- 23 claimed synergy for their product between different
- 24 ingredients?
- 25 MS. ECHEVERRIA: Correct. So, they were

- 1 actual cases that we were reviewing applications under
- 2 registration. We searched patent and trade office
- 3 information and they were making those claims. So,
- 4 there was a direct need to actually evaluate whether
- 5 those claims and the data supporting those claims were
- 6 relevant for risk assessment purposes.
- 7 MR. COY: Okay. So, this is not related to
- 8 what the beekeepers usually bring up, synergy from
- 9 tank mixes of two separate products?
- 10 MS. ECHEVERRIA: Correct. So, this was
- 11 specifically where we had this source of information
- 12 where these specific claims were being made. But this
- pilot does not address the tank mix situation that
- 14 you're referring to.
- 15 MR. COY: Okay. And then, at the meeting in
- 16 January, there was a presentation that indicated that
- 17 at least one -- I don't know what the company was.
- 18 But they were using an active ingredient of one
- 19 product as a component of a separate product for the
- 20 synergism thing. So, that's kind of what you're
- 21 talking about in your initial eight cases?
- MS. ECHEVERRIA: I'm not sure I understand.
- 23 Can you repeat?
- MR. COY: So, they were using -- I can't
- 25 remember the product name. A researcher was doing

- 1 research and he said that an active ingredient for one
- 2 product was an ingredient in another formulation. The
- 3 reason they put that ingredient in there was a
- 4 synergistic effect.
- 5 MS. ECHEVERRIA: Okay. So, I think that's a
- 6 different scenario what you're talking about. There
- 7 are some products where an ingredient is designed to
- 8 be a synergist. In those cases, we understand how the
- 9 synergist works purposefully to enhance efficacy of
- 10 the product. So, I'm guessing that's what you're
- 11 referring to.
- But in these cases, there are actually
- 13 claims being made to the trade office that said in
- 14 combination two separate active ingredients, you would
- have enhanced yield or a better effect in the field.
- MR. COY: Okay.
- MR. KEIGWIN: Nichelle, then Jake, then
- 18 Robyn.
- 19 MS. HARRIOTT: So, my question is similar to
- 20 Steven's. So, the Agency is only evaluating synergy
- 21 if there is an explicit claim being made, correct?
- MS. ECHEVERRIA: Correct, for this pilot
- 23 process. In these cases, we felt compelled that there
- is an actual claim out there that we needed to
- 25 investigate, whether or not there is actual data

- 1 relevant for risk assessment that would actually
- 2 change our risk assessment meaningfully.
- 3 MS. HARRIOTT: So, you mentioned that is a
- 4 pilot. But in the future, will the Agency look at
- 5 formulations that have more than one active ingredient
- 6 for synergy as part of its risk assessment?
- 7 MS. ECHEVERRIA: So, for a product that is
- 8 co-formulated, we do get formulation specific
- 9 information, a typical end-use product when the
- 10 application is made directly to water. So, we
- 11 consider and we evaluate that information as part of
- 12 the risk assessment currently.
- 13 MS. HARRIOTT: But it's not throughout the
- 14 program? You said it's only for those applied to
- 15 water.
- 16 MS. ECHEVERRIA: And also for plant toxicity.
- 17 It's based on the formulation specific information.
- 18 Also, field testing for pollinators is also
- 19 formulation specific.
- MS. HARRIOTT: Okay. So, the eight cases
- 21 that you mentioned, so there are currently eight
- formulations out there that claim synergy on their
- 23 labels?
- MS. ECHEVERRIA: So, there were eight active
- 25 ingredients that there was an application process for

- 1 which they were making claims to the patent office
- 2 that we've run through our relevancy criteria and
- 3 we've evaluated whether or not there was information
- 4 to change our risk assessment.
- 5 So, it's not formulation specific here. So,
- 6 it's an active ingredient A and maybe the company who
- 7 has active ingredient A, or another company we've
- 8 actually found out, and they're actually making claims
- 9 in combination with another active ingredient in terms
- 10 of a tank mix or some kind of use together, you would
- 11 get enhanced yield or enhanced efficacy.
- 12 MR. KEIGWIN: Jake, then Robyn, then Sharon.
- MR. VUKICH: You had mentioned that there's
- 14 a process for screening and searching the patent
- office claims. Is that process available? Is it an
- 16 SOP or is that something that we can see?
- 17 MS. ECHEVERRIA: Yes. It's a draft process
- 18 that's available upon request. We have been giving
- 19 out guidance as we've developed the process and
- learned as we've gone. So, we're happy to share that
- 21 information. It is draft.
- MR. KEIGWIN: Robyn, then Sharon, then
- 23 Richard.
- MS. GILDEN: So, could you just clarify for
- 25 me. With the eight cases, you said most of them

- weren't applicable because of a variety of different
- 2 reasons. So, the data wasn't good or it was negative
- 3 or it was missing? What made them not be usable
- 4 except for the two cases?
- 5 MS. ECHEVERRIA: So, in some cases, there
- 6 were no relevant data actually supporting the claim.
- 7 In other cases, it was actually limited information.
- 8 Then, in other cases, there was actually information
- 9 but it was not robust enough to support a statistical
- analysis to support the claim. So, there's more than
- 11 one sort of outcome.
- 12 MS. GILDEN: So, would that mean that where
- there was missing data or not good quality data, would
- 14 you go back to those companies and say we need more
- 15 data or better data?
- 16 MS. ECHEVERRIA: So, we weren't piloting this
- 17 to impose additional data requirements. We were using
- 18 best available information, as is our practice. So,
- if there was a data source that had the best available
- 20 information there was evidence in that data source, we
- 21 would want to use it. But we're not looking to expand
- 22 requirements in absence of those data.
- MR. KEIGWIN: Sharon, then Richard, then
- 24 Cynthia, and I think Lori Ann, your card is up.
- 25 MS. SELVAGGIO: I've got a question about

- 1 this. Bullet number two refers to USGS ambient water
- 2 quality data. It says in a predominant number of
- 3 cases, the potential toxic risk is dominated by one to
- 4 a few chemicals. That phrasing is a little odd to me,
- 5 potential toxic risk. As you know, depending upon the
- 6 watershed, highly agricultural or highly urbanized
- 7 watersheds can very, very commonly have multiple
- 8 pesticides detected in a single sample.
- 9 So, I'm wondering what else is EPA doing?
- 10 It is common that you see mixtures that are often
- dominated by a few key chemicals. So, what else is
- 12 EPA doing to evaluate the synergistic interaction, the
- 13 potential for synergy amongst those frequently used
- 14 pesticides that commonly show up in aquatic systems?
- MS. ECHEVERRIA: So, for this pilot, we're
- 16 evaluating the patent and trade information, patent
- 17 and trade office information. To the extent that
- 18 there is open literature data with respect to an
- 19 active ingredient that is robust enough for us to
- 20 consider for risk assessments, we do that as part of
- 21 our re-evaluation process.
- MR. KEIGWIN: We'll just take these last
- three because we still have one more topic and then
- the break. So, Richard, then Cynthia, then Lori Ann.
- MR. GRAGG: Thank you. I think I just

- 1 understood what you were saying. So, if a company is
- 2 claiming an interaction in effect to enhance the
- 3 pesticide, then you're concerned that that could be
- 4 tox interaction in terms of health. So, therefore,
- 5 you're going to investigate it?
- 6 MS. ECHEVERRIA: Correct.
- 7 MR. GRAGG: Okay. So, are you using any of
- 8 the 6-pack assessment to evaluate the potential?
- 9 MS. ECHEVERRIA: So, we considered that
- 10 information from an ecological perspective to non-
- 11 target mammals. This is in the context of ecological
- 12 risk assessment. I should have clarified that. So,
- 13 we are generally looking at non-target insects like
- 14 the pollinators, birds, aquatic invertebrates, fish,
- and plants. Non-target plants has been a big one.
- 16 So, it's really in the context of that kind of
- 17 evaluation.
- 18 MR. GRAGG: Thank you.
- MR. KEIGWIN: Cynthia.
- 20 MS. PALMER: I just have a clarifying
- 21 question. I'm sure I just somehow missed the answer.
- So, on page one, it says a large number of U.S. patents
- 23 have claims of interactions. Then, on page 2 we learn
- about these eight cases that you looked at in more
- 25 depth.

- 1 I'm just wondering was eight the total
- 2 universe of claims for which there is sufficient data
- 3 or if not, how did you choose to focus on those eight?
- 4 MS. ECHEVERRIA: So, the eight had to do with
- 5 applications that were in front of us for regulatory
- 6 decision making. So, that's why we focused on the
- 7 eight. We were actively working on those risk
- 8 assessments in support of a registration decision.
- 9 But there is this other body of information out there
- 10 that has not been looked at systematically.
- 11 MR. KEIGWIN: And Lori Ann.
- 12 MS. BURD: Last July, we, at the Center for
- 13 Biological Diversity, put out a report where we looked
- into the past six years of pesticide product approvals
- 15 by four companies in the past six years. We found
- that 96 out of the 140 had pesticide patent
- 17 applications for them.
- 18 Then we followed that up with a petition,
- 19 because we found that going back to 2007, there was a
- 20 regulation requiring pesticide registrants to submit
- 21 that information. Then a regulation was removed. I
- 22 think it was called unnecessary. So, we are still
- 23 awaiting a response to that petition and eagerly look
- 24 forward to it.
- 25 MS. ECHEVERRIA: So, as I mentioned, we are

- in receipt of the petition, and we are working on the
- 2 response right now.
- MS. BURD: For folks that are interested,
- 4 that report again is called Toxic Concoctions. It
- 5 contains tables of pesticides we looked at.
- 6 MR. KEIGWIN: Okay, we'll do one more and
- 7 then take a break. Maybe it will go quick. ESA. Not
- 8 because it's yours, Anita.
- 9 MS. PEASE: Hi, everyone. I'm Anita Pease.
- 10 I'm the assistant director of the Environmental Fate
- 11 and Effects Division. Saving the best for last, I
- 12 quess.
- So, you've got your one-pager. So, I know a
- lot of you, this is a topic that is near and dear to
- 15 your heart. For the past four years, we have been
- 16 working with the Services, U.S. Fish and Wildlife
- 17 Service, National Marine Fisheries, to implement the
- 18 recommendations from the National Academy of Science
- 19 Report that came out in 2013 to develop a common
- 20 method for evaluating the risk of pesticides to
- 21 endangered species.
- We developed an interim method back in
- November of 2013. We agreed then that we were going
- 24 to apply that method to five chemicals.
- 25 Chlorpyrifos, diazinon, and malathion is the first

- 1 three. And then carbaryl and methomyl is the next
- 2 two. We were going to do that in the context of
- 3 nationwide biological evaluations, so the first ever
- 4 nationwide consultations for endangered species based
- 5 on pesticides.
- Back in April of 2016, we released the first
- 7 draft biological evaluations for the first three
- 8 chemicals, which are chlorpyrifos, diazinon, and
- 9 malathion. We sent those out for a 60-day public
- 10 comment period. We received a lot of public comments.
- 11 We got about 70,000 comments, most of which were a
- 12 letter writing campaign to ban those chemicals. I
- think we had about 120 substantive comments mostly
- from grower groups, pesticide industry, and such.
- 15 After we received those comment letters, we
- 16 had a stakeholder meeting in June of 2016, a two-day
- 17 stakeholder workshop, where we got a lot of good
- 18 recommendations on some of the challenging issues
- 19 related to aquatic modeling, a weight of evidence
- approach, and seeking recommendations on further
- 21 refinements, both spatially and nonspatially, to our
- 22 risk assessments.
- So, recently, in January of 2017, we did
- 24 release the final biological evaluations, along with a
- 25 response to comment document. It became necessary

- 1 because of our consultation deadlines, our court-
- 2 mandated deadlines for the first three chemicals final
- 3 biological opinions, which is the next document in the
- 4 process. Those are due January of this year, 2017,
- 5 for the first three chemicals.
- It became necessary to bin all the
- 7 recommendations that we received into those that we
- 8 felt we could implement in the short term and those
- 9 that would take longer to develop, having those
- 10 discussions with the Services so we could come to
- 11 agreement.
- 12 So, we released the final BEs, acknowledging
- 13 that not all of the public comments that we had
- 14 received we would have time to address. So, we did
- 15 what we could in terms of addressing errors, working
- on some improved transparency for our modeling, adding
- 17 and deleting species as appropriate, and also making
- some changes to our aquatic modeling approach to
- include some further refinements. So, those documents
- 20 are now available.
- 21 Also, in mid-April, we received a letter
- from the registrants for the three chemicals, for
- 23 Chlorpyrophos, diazinon, and malathion, basically
- 24 making three requests to the Agency. The first
- 25 request was they wanted us to retract the final BEs

- 1 for the first three chemicals, they want the Services
- 2 to stop work on biological opinions, the next step in
- 3 the process, and also for us to go back to the courts
- 4 and request an extension on the court-mandated
- 5 deadlines for the final biological opinions to allow
- 6 us all more time to integrate all the comments that
- 7 we've received.
- 8 Also, EPA has completed draft BEs for
- 9 carbaryl and methomyl. Those have not yet been
- 10 released for public comment yet. That's all tied up
- in consideration of the letter that we got from
- 12 industry. I'll also mention that in addition to the
- industry letter, we received some letters of support
- 14 from Crop Life America, from Rise, and also from the
- 15 registrants for carbaryl, basically voicing support
- 16 for the industry letter.
- 17 So, right now we continue to work with the
- 18 Services on develop further refining the methods and
- 19 also working on methods for step 3, which are the
- 20 biological opinions. We're expecting that the
- 21 Services will release biops, draft biops for the three
- 22 chemicals in the beginning of the summer.
- So, with that, I'll stop and take any
- 24 questions.
- MR. KEIGWIN: Okay, Robyn.

- 1 MS. GILDEN: So, thank you very much for
- 2 that quick update. After you're done with all of
- 3 these pesticides, what pesticides are you going to
- 4 target next?
- 5 MS. PEASE: So, next on the docket after
- 6 these five are four herbicides. That's atrazine,
- 7 simazine, propazine, and glyphosate. Right now, the
- 8 commitments are for EPA to complete BEs by 2020 and
- 9 for the Fish and Wildlife Service to complete the biop
- 10 by 2022.
- 11 MR. KEIGWIN: Richard, then, Sharon, then
- 12 Lori Ann.
- MR. GRAGG: So, are the industry groups
- 14 asking you to go back and redo what you've already
- done or approach it in a different way?
- 16 MS. PEASE: Yes. So, basically what industry
- 17 is asking is that we go back and we refine the first
- 18 two steps in the process, which are EPA's biological
- 19 evaluations. So, if you're not familiar, the final BEs
- 20 that came out had a large number of likely to
- 21 adversely affect determinations. About 97 percent of
- the species for chlorpyrifos and malathion moved on
- 23 to the biop as needing further evaluation by the
- 24 Services. For diazinon we had about 80 percent of the
- 25 species.

- 1 So, it's basically going back to the methods
- 2 that we developed and including further refinements
- 3 with exposure, the way we evaluate exposure, the way
- 4 we characterize toxicity, and also how we evaluate
- 5 geospatially the areas where pesticide use overlaps
- 6 with areas where species occur on landscape. So,
- 7 there were a lot of different recommendations.
- 8 MR. GRAGG: So, these were the methods
- 9 they're wanting you to revisit?
- MS. PEASE: Yes.
- 11 MR. GRAGG: Are these standard EPA methods?
- 12 MS. PEASE: They're new methods. They're new
- 13 risk assessment methods. They make use of our
- existing ecological risk assessment framework, but we
- 15 did develop a lot of new tools. We have a lot of new
- 16 methods that we use in these BEs that we have not
- 17 typically used in our normal FIFRA assessments.
- 18 MR. GRAGG: So, in what you have now and if
- 19 you revisit it, when you revisit it, what implications
- 20 will that have for human health risk assessments on
- 21 these pesticides?
- MS. PEASE: This is specific for --
- MR. GRAGG: Yes, I know. I know, endangered
- 24 species. I'm saying if you go back and revisit it for
- 25 the endangered species, are there any implications for

- the human health risk assessment?
- MS. PEASE: Not that I'm aware of.
- 3 MR. GRAGG: Okay.
- 4 MR. KEIGWIN: Sharon, then Lori Ann, then
- 5 Marc.
- 6 MS. SELVAGGIO: Thanks for all your work on
- 7 this so far. I know these documents and this process
- 8 is extremely time consuming and laborious. It
- 9 addresses some big questions, though, which are what
- 10 effects do pesticides have on the most vulnerable
- 11 species in the nation, which is kind of similar to the
- 12 question that we're asking when we talk about
- vulnerable people, such as farmworkers and children
- 14 and those who are occupationally exposed.
- 15 It's really important that we consider the
- 16 particulars of listed species when we look at
- pesticides through the process. So, I'm glad, even
- though I've only been working on this for two years,
- 19 this whole process has actually been kind of underway,
- as you guys know, for over a decade.
- 21 I think it seems late in the game to get
- this kind of recommendation, because in the two-and-a-
- 23 half years that I've been kind of paying attention to
- 24 this, I think you guys have held at least four
- 25 stakeholder workshops outlining your methods. It's

- 1 been open to the public.
- So, I know that you've done a lot of work to
- 3 try to make sure that the assumptions and the models
- 4 and the scientific processes that underlie ultimately
- 5 the conclusions are transparent and available to people
- 6 to understand in advance. So, I appreciate that you
- 7 have gone to that effort. I just think it's late in
- 8 the game for a request like this.
- 9 When I look at the three requests, I guess
- 10 my question for EPA is, since this first two batches
- 11 are basically under settlement agreement, if you can't
- 12 get a modification of the settlement agreement,
- doesn't that make moot the first two requests?
- MS. PEASE: Yes, that's a good point.
- 15 MS. SELVAGGIO: Okay. I just wanted to see
- if there was something I was missing. So, thanks.
- 17 MR. KEIGWIN: Lori Ann, then Marc, then
- 18 Dawn.
- 19 MS. BURD: I'm going to echo a lot of what
- 20 Sharon just said. The contents of at least the first
- 21 letter -- I haven't seen Crop Life's or the other ones
- 22 that you mentioned. The contents of these letters are
- all rehashing points that have been made in the
- 24 multiple comment periods and the multiple public
- 25 meetings.

- This has been the most transparent

 consultation process in history with these long

 comment periods and many opportunities for stakeholder

 input. It's incredibly frustrating to see this Agency

 considering an 11th hour attempt to thwart a nearly

 half decade of progress on this.
- 7 The Center for Biological Diversity strongly 8 encourages you to not grant this request.
- 9 MR. KEIGWIN: Marc and then Dawn.
- 10 MR. LAME: So, this was a fairly predictable
 11 game of delay that registrants and the associations
 12 play. They've kind of always done this, at the same
 13 time asking for sound science and transparency, which,
 14 again, I agree has been outstanding in this case.
- I guess my question is, do you have an
 estimate of how many species will be going extinct in
 the United States before we get to do this again?
- MS. PEASE: I don't have an answer to that.
- 19 I think it depends on what their current baseline status
- 20 is right now. Some species are recovering quite well
- 21 that aren't still on the list. I look to Gina to
- 22 clarify this, but others are in decline. So, there
- are some that are on the brink. These are criteria
- that are being considered in the biological opinion
- 25 right now. Are the species trending up or down, and

- 1 that's part of the equation. But I can't even fathom
- 2 a guess the answer to that question.
- 3 MS. SHULTZ: So, you're asking an open-ended
- question like what would the delay be. So, I can't
- 5 tell you if there were a delay, how long it would be
- 6 and how many species would go extinct during that time
- 7 due to any of the pesticides that we're consulting on
- 8 or other reasons unrelated to pesticides.
- 9 MR. KEIGWIN: Dawn, then Ray, then Gabrielle.
- 10 MS. GOUGE: Given that you're intimately
- 11 aware as an expert team of the process that you've
- been through, if you were to go back, modify your
- process, and move forward, would you anticipate any
- different results at the end of the process?
- 15 MS. PEASE: I think we would. I think we
- 16 would have a smaller number of likely to adversely
- 17 affect determinations for species. I think some of
- 18 the streamlining steps that we're considering right
- 19 now, some of the recommendations from stakeholders,
- 20 both registrants and grower groups, we agree with and
- 21 we think those are good recommendations. We would
- like to implement them given the time to do so.
- So, I expect that we would probably have a
- 24 fewer number of species that would move forward in
- 25 step 3, which is the Services biological opinion. We

- 1 want to be protective. We're not interested in just
- 2 reducing numbers. We're interested in focusing our
- 3 resources on a species that actually need and deserve
- 4 protection.
- 5 When everything shoots through to the next
- 6 level, that's not a very good screen. So, I think we
- 7 acknowledge that. So, I think yes, we would expect
- 8 different conclusions.
- 9 MR. KEIGWIN: Ray, then --
- MS. ECHEVERRIA: Can I add one thing?
- 11 One point I would make, I agree, we might expect
- 12 different conclusions with respect to the step one and
- 13 step two conclusions. But I don't know that we could
- 14 say whether it would make an actual difference in
- 15 terms of the biological opinions, which ones we
- determine are in jeopardy or not in jeopardy, or the
- 17 regulatory RPAs are measured that we'd actually put in
- 18 place. I don't know that we have that information. I
- 19 do think it would make a difference in terms of our
- 20 resources in terms of how big the consultation is to
- 21 begin with.
- MS. SHULTZ: So, I can confirm that
- as well. So, as we're drafting the biological
- opinion, there are species that were determined to
- 25 have a likely to adversely affect. And after we've

- done our step three review, we've concluded that
- 2 actually they're not likely to adversely affect. So,
- 3 we're not carrying it all the way through the jeopardy
- 4 analysis.
- 5 But that's one of the many, many
- 6 streamlining things we've talked about for the future
- 7 consultations. It will be much more efficient if EPA
- 8 uses that same bar that we've used in step three for
- 9 not likely to adversely affect and then the
- 10 consultation concludes at the BE stage.
- 11 MR. KEIGWIN: Ray and then Gabrielle.
- 12 MR. MCALLISTER: I think Anita made the
- point I wanted to make, basically. It's my
- 14 understanding that the biological evaluations found
- some 87 percent of the species in the likely to
- adversely affect category, which doesn't bear any
- 17 relationship with what we see in the field. These
- 18 products have been used for decades and don't see
- declines in those species. So, I think it's
- 20 worthwhile to reevaluate.
- 21 MS. PEASE: Yes, I just want to make a point.
- 22 So, the effects are effects to one individual. So, I
- 23 think that's important to note. That's what LAA
- 24 means. It's not the population; it's at the
- 25 individual level.

- 1 MR. KEIGWIN: Gabrielle.
- 2 MS. LUDWIG: From the grower groups'
- 3 perspective, I've looked at the draft biological BE
- 4 evaluation. I just want to say for those of you who
- 5 say okay, this is all finished science, it really
- 6 isn't. There's a lot of new stuff here. I don't
- 7 claim to grasp all of it, but I will say that from our
- 8 perspective, one of the issues really is --
- 9 I understand the reasons why, but some of
- 10 the assumptions on how the products are used are
- 11 absolutely worse, worse, worse case scenario. It
- would be nice if you not only had what I call the
- worse, worse --
- 14 I mean, some maximum label rates are like
- 15 seven times what we actually use in the field, but
- 16 also something where you looked at what I call a
- 17 maximum normal use rate. So, you could really see how
- 18 far off are we from things or where can we make some
- 19 adjustments and maybe make some changes earlier on.
- 20 But I just want to be clear that this is
- 21 really complicated. Having legal deadlines that short
- 22 change the process and the public process for
- discussion about it really is frustrating. Again,
- 24 it's not saying it's all going to end up one way or
- 25 the other; it's just these things take time to try it

- out, figure out what works and doesn't work.
- I come back to having had the chance to
- 3 observe EPA go through this process on the dietary
- 4 risk assessment, on the human dietary risk assessment
- 5 back when the Food Quality Protection Act got passed.
- 6 Those first human health risk assessment showed
- 7 substantial risk, actually for some of the exact same
- 8 compounds we're talking about now.
- 9 When those risk assessments were made
- 10 publicly available and grower groups could look at
- 11 them and say no, that's not how we're using it, we're
- 12 using it this and this way, and plus some other
- refinements in the risk assessment methodology going
- 14 to a probabilistic methodology, using pesticide data
- 15 program residue data, you ended up with a sense that
- okay, now we're dealing with the risks that really are
- 17 of concern. Beforehand, everyone was like okay, this
- just doesn't make sense, as Anita was sort of saying,
- 19 when you have everything being a problem, when it
- 20 doesn't ring true.
- 21 So, I just want to say I realize there's a
- lot of different interests here. But from a grower
- 23 group's perspective, not wanting to have things all
- 24 right or all wrong, this has been frustrating in terms
- of having deadlines that didn't allow us to have that

- 1 really transparent process to move forward. So, I
- just want to say I don't think things are as settled
- 3 as they seem to be.
- But this has been a learning process. I
- 5 mean, I do think EPA had to try this for better or for
- 6 worse to find out what it takes to do every species
- 7 between Maine and the Mariana Islands and barely
- 8 survive it. Anyway, I just want to say that it's
- 9 complicated, hard.
- 10 So, having the time does make a
- 11 difference. Again, I'm not saying it's going to end
- 12 up all one way or the other. I think there's
- additional information either way that could help
- inform this process.
- 15 MR. KEIGWIN: So, Sharon, you get the last
- 16 comment.
- MS. SELVAGGIO: It's just a question. I
- 18 forgot to ask something. On your update sheet, it
- 19 says EPA is exploring using species specific toxicity
- 20 data earlier in the first step. If my recollection
- 21 serves, you used like HCO5 from the species
- 22 sensitivity distribution, unless you already had
- 23 species specific data, right? I thought you already
- 24 used that.
- 25 MS. PEASE: Yes, we do, but that doesn't come

- 1 into play until step two. If you recall, step one is
- 2 the no effect/may effect call. That's right now only
- 3 on geospacial co-occurrence. So, there's no toxicity
- 4 information that's included in that step right now,
- 5 other than the off-field transport part of it.
- 6 MS. SELVAGGIO: Okay, thanks.
- 7 MR. KEIGWIN: So, we're running about 15
- 8 minutes behind. Arnold has already set his timer for
- 9 his talk, which isn't for like a half an hour or more.
- 10 So, why don't we try to gather back here at 3:25. It
- 11 gives you about 15 minutes. Thanks.
- 12 (Whereupon, a brief recess
- 13 was taken.)
- 14 MS. MOSBY: -- and Melissa Panger
- who have been the co-chairs who have helped
- 16 to facilitate and just get all of the information that
- 17 we needed and advice we needed from the workgroup.
- So, I'd like to just start with
- 19 talking about -- just to refresh everyone's memory
- about the OPP goal, and just to mention that many of
- 21 you remember that we started this workgroup, the PPDC
- incident workgroup, 18 months ago. The goal of the
- workgroup was to develop an electronic incident data
- 24 system that is publicly available and useful to a
- 25 broad stakeholder group. So, that was the goal of the

- 1 workgroup. We wanted to receive advice from the PPDC
- 2 workgroup on this.
- 3 So, we set out to develop a new system to
- 4 one, address the deficiencies in our current system.
- 5 So, that meant that we were looking to have a system
- 6 that would improve reporting by making reporting
- 7 easier for both voluntary and for required incident
- 8 reports, obtaining more and higher quality incidents
- 9 for risk assessments, improving consistency in our
- 10 reporting, also to enhance efficiencies by eliminating
- 11 manual data entry, reducing time that we spent on FOIA
- 12 requests, and also we wanted a system that would
- 13 support quality science-based decision making, and
- 14 also we wanted a system that would encourage data
- sharing within EPA and between other agencies and
- 16 stakeholders. So, we were trying to solve a problem.
- 17 The problem I kind of stated in going
- through what we wanted, but the problem was that we
- 19 had primarily flat files, no data. We have manual
- 20 data entry. We have inconsistent information, missing
- 21 information. Our data is submitted in various parts
- of the organization and also submitted in various
- forms. It doesn't talk to other systems.
- So, the current charge that we had for the
- 25 PPDC incident workgroup was to advise us on which data

- 1 might go into this new data system and to get input
- for system development. It's worth noting that the
- 3 charge has evolved over time. We started out with
- 4 sort of a start and finish, and we would have had
- 5 substantial down time during system development.
- 6 Our current thinking is that the PPDC
- 7 workgroup would help us on the front end, which is the
- 8 data elements, and then we would go off and start
- 9 working on system development. Then we will reconvene
- on the implementation issue. So, that's the approach
- 11 that we are using.
- 12 The workgroup has been providing advice on
- what data might go into the system. So, that includes
- data elements, the number of data elements, also the
- 15 thought of maybe we need a smaller number of elements
- 16 for certain kinds of incidents. We talked about a
- 17 trade-off between the cost and the benefit of
- 18 additional data elements and when might some data
- 19 elements apply. Yesterday, we had a facilitated
- 20 meeting with the workgroup to talk more about this
- 21 issue of when would certain data elements apply.
- 22 What we were trying to get at were some
- 23 questions like should we strive to get all the data
- 24 elements for every incident? What are the
- 25 circumstances where we would strive to get all the

- data elements? So, we got input on questions like
- 2 that, just trying to figure out when do all of these
- data elements apply, what type of incident would they
- 4 apply for.
- 5 So, we got that input. Then, the other part
- of our charge was input for system development. We
- 7 wanted to hear from the workgroup on parallel
- 8 databases. So, we talked about other systems that
- 9 might help us in designing or thinking about what our
- 10 system would look like.
- 11 Rather than to have the group be dormant for
- some time, we decided to dissolve the workgroup and
- 13 come back to the PPDC for further input prior to
- implementing a new system. So, as I said, we received
- input on a host of data elements. I went through
- 16 those.
- 17 We've got some work, and we've received just
- 18 excellent advice and input that we'll take into
- 19 consideration. But we need to go back now and look at
- 20 the data elements that we have and then we would come
- 21 back and start a new workgroup.
- But what we would do in the future with the
- 23 PPDC would be sort of implementation issues. It would
- 24 be verifying and validating incident data in the
- 25 database, protecting issues -- these are issues that

- 1 came up on implementation that we haven't come to some
- 2 conclusion about -- protecting certain information,
- 3 PII, and screening data for public release.
- 4 So, these are issues that we still have to
- 5 address. Those are those implementation issues. So,
- 6 we're at a place where we have received the advice for
- 7 our initial charge, and we would like to, as I said,
- 8 dissolve the workgroup and get back with you through
- 9 another workgroup. We'll figure out the process for
- 10 doing that.
- 11 I want to just thank the workgroup. You
- 12 have provided invaluable input. We've got diverse
- input from a diverse group of stakeholders. As I
- said, your input has been invaluable. OPP appreciates
- 15 the feedback already received by the PPDC workgroup.
- We look forward to taking your input under
- 17 consideration as we move forward.
- 18 MR. KEIGWIN: Thanks, Jackie.
- MS. MOSBY: You're welcome.
- 20 MR. KEIGWIN: If there are one or two
- 21 questions or comments, we can take those. Cheryl and
- 22 Liza.
- MS. CLEVELAND: So, I appreciate being able
- 24 to be part of this workgroup. I guess I really
- 25 struggle with this constant discussion of data

- 1 elements for data elements sake without having broader
- 2 context. Personally, I just struggle with it, so it
- 3 was hard.
- 4 They'd say rank this or when do you need
- 5 this. I'm like well, how are you getting this data?
- 6 Is it coming from a public call? Is it coming from a
- 7 search of another database? Is it coming from an EPA
- 8 staffer that's going to backfill this? It was very
- 9 difficult. I tried really hard to continue to stay
- 10 focused on this.
- 11 That's what I just want to say. I think you
- 12 did push through. We had a long list of data
- 13 elements. But I think you need to consider them to be
- 14 a little bit draft. Even in the car yesterday, there
- 15 were some people discussing these data elements as if
- they would be somebody on the phone, taking a
- 17 complaint call at a call center. And there were other
- people thinking no, it's a state investigation person
- 19 that's following up on this. So, it's not clear how
- 20 you're collecting, who is getting it.
- 21 We heard real clear that if you're talking
- 22 to the public on the call, you'd only have a short
- amount of time, 6 to maybe 11 minutes keeping somebody
- on a call. That's it. So, if you want to push to get
- 25 all these data elements filled, that's going to be

- very difficult.
- 2 So, these other questions about when do you
- 3 strive to get everything. That's a question. How
- 4 much resource do you want to put into backfilling?
- 5 How much EPA resource or other state regulatory
- 6 resource do you want to put on to backfill things that
- 7 you don't get the first time?
- 8 So, I would say we did bring forward some
- 9 concerns last year where we stated that without
- 10 context, some of this is very difficult. Mandatory
- 11 versus voluntary, the data collection mechanism
- itself, the implications for a registrant 6(a)2
- 13 information, and then the verification and validation
- part of this.
- We were only talking one part of the
- 16 project. So, you had to start somewhere. Great.
- 17 Consider them draft until you can answer some of
- 18 those other questions. Thank you.
- MS. MOSBY: Thank you.
- MR. KEIGWIN: Liza and then Amy.
- MS. FLEESON TROSSBACH: I think part of my
- 22 question got answered by Cheryl, but just for my
- 23 clarification, just to refresh my memory, this would
- 24 be any type of incident? So, it could be a possible
- 25 pesticide misuse or alleged adverse effects to

- 1 pollinators from pesticides. So, this could be any
- 2 type of incident that involved pollinators?
- 3 MS. MOSBY: Yes.
- 4 MS. FLEESON TROSSBACH: Also, the report
- 5 could come from anybody. So, the general public,
- 6 state-lead agency, or registrant, any of those
- 7 different groups?
- 8 MS. MOSBY: Yes.
- 9 MS. FLEESON TROSSBACH: So, I would just
- 10 like to reiterate what Cheryl indicated, the concerns
- of state lead agencies, for example, in our business.
- 12 We get a lot of complaints, a lot of tips,
- 13 Complaints, and reports often have no pesticide related
- 14 issue at all.
- 15 So, one of the concerns is that if that's
- 16 reported as an incident, is it really an incident?
- 17 There's not a finding of some type of violation or an
- 18 actual adverse effect can be -- you know, there's some
- 19 sort of causation there.
- So, I would agree that verification and
- 21 validation and then coming full circle. And then also
- 22 ensuring that you're not double counting. If the
- general public reports it and I as a state-lead agency
- report it and somebody else, then you have these
- 25 multiple things.

- So, just to be thinking about in addition to
- which data elements are appropriate, how you're going
- 3 to gather the data, verifying and validating. Is that
- 4 full circle to make sure that you're not getting false
- 5 data. Good data in, good data out. The opposite is
- 6 true as well. If that's going to be used to inform
- decisions, we want to make sure that it's valid data.
- 8 So, thank you.
- 9 MS. MOSBY: Thank you.
- 10 MR. KEIGWIN: Okay, we'll wrap up with Amy.
- 11 MS. LIEBMAN: I appreciate all the concerns
- 12 that are being raised. I just wanted to say that the
- incident workgroup has really worked on a really
- 14 important issue. I encourage you to continue the road
- 15 that you're going down.
- 16 Quite frankly, if we're getting like extra
- 17 reports, I just think that's great because we're not
- getting a lot -- we need to sort of figure out how to
- 19 gather incident data. I understand the concern about
- 20 possible double counting, but at this point, because
- 21 it's so haphazard and there's not a good system in
- 22 place, this is a start and a step forward and much
- 23 needed.
- 24 I'll just put my plug that I put in for every
- 25 single PPDC meeting, but we really do need a system

- 1 that's national where we can systematically report
- 2 pesticide incidents. I would love to go the
- 3 regulatory route on that, but I know that's probably
- 4 not going to happen. But this is something that is
- 5 greatly needed if we're to understand what's happening
- 6 with pesticides once they've been approved.
- 7 MR. KEIGWIN: Okay, thanks, Jackie, and
- 8 thanks to the workgroup that's gotten us to this
- 9 point.
- Now, what Arnold has been waiting for all
- 11 day. This time I won't also forget to introduce Yu-
- 12 Ting since she's a co-session chair for this one, so
- 13 Yu-Ting Guilaran as well from the Pesticide Re-
- 14 evaluation Division. And Bob McNally, he wasn't on
- 15 the agenda. That one I have an excuse.
- 16 MR. LAYNE: Good afternoon, everyone. I'm
- 17 Arnold Layne, Deputy Director of the Office of
- Pesticide Programs. I'm thankful for the opportunity
- 19 to give you an update on Zika. I'm going to provide
- 20 you, with the help of Yu-Ting, the status of
- 21 registration reviews. With the help of Bob, we're
- going to talk about integrated pest management. Then,
- 23 lastly, I just wanted to let you know that from the
- last PPDC meeting, we heard you with respect to your
- 25 concerns and desires to bring together a workgroup for

- 1 public health issues. We'll talk about that.
- 2 To start with, an overview of Zika for those
- 3 of you who weren't here last time. This is such an
- 4 important issue. As you see in this slide, the former
- 5 CDC director, Tom Frieden, highlighted the critical
- 6 nature of Zika in his statement that you can read, as
- 7 well as the statement or quote provided from the New
- 8 England Journal of Medicine, which says it all, I
- 9 think.
- 10 This next slide really breaks my heart, and
- it shows you the impacts of Zika on our most precious
- 12 blessings, children. Zika is a public health concern,
- and it is a virus that is spread by mosquitoes that is
- 14 known to cause birth defects in fetuses infected, and
- 15 also Guillain-Barré Syndrome in adults.
- 16 Zika affects all of us through both health
- 17 and emotional tolls that it takes on us, as well as it
- 18 costs society. It's imposing. I have heard figures
- of up to \$10 million for health care and just support
- 20 for babies born with Zika. So, you can imagine the
- 21 economics associated with that.
- 22 EPA is involved in a large and active
- 23 federal response to prevent, treat, and gather data on
- 24 Zika transmission. The Office of Pesticide Programs
- 25 has a key role since we regulate mosquito control

- 1 pesticides and repellants, as well as advocate. We
- 2 really do advocate first for integrated pest
- 3 management methods for control.
- I believe that all of us who work in the
- 5 area of pesticides and human health, we must care
- 6 deeply about how our expertise and interest can
- 7 improve the lives and livelihoods of people by
- 8 avoiding disease, protecting human health, and
- 9 protecting the environment.
- This particular slide here shows the number
- of Zika cases in the U.S. It is substantial, with most
- 12 reported cases in Puerto Rico. While thousands of
- 13 Zika virus cases are reported, most have been acquired
- 14 through travel.
- This map shows the spread of Zika across the
- 16 U.S., with the darker filled areas showing higher number
- 17 of cases. So far, only the Miami-Dade area of Florida
- 18 and the Brownsville and border areas of Texas have
- 19 confirmed locally acquired cases of Zika. In some
- 20 respects, that's good news.
- This next slide will show you some of the
- 22 epi data associated with Zika. So, these numbers are
- from the 12th of April. I do have some updated
- 24 numbers. I'm not sure that it matters. The fact is
- 25 that the numbers are going up.

- So, in the continental U.S., we're looking at
- 2 right now, my latest figures, are 5,264; U.S.
- 3 Territories 36,575. Of those 36,000 in the
- 4 territories, only 143 of those cases are travel
- 5 related. Of those 36,000 cases, 35,400 of those
- 6 essentially are in Puerto Rico, 997 in the U.S. Virgin
- 7 Islands, and 132 in American Samoa.
- 8 The pregnancies that have been officially
- 9 report in CONUS is 1,762, and U.S. territories is 3,592.
- 10 Pregnancy outcomes in the United States, so far there
- 11 have been over 1,300 pregnancies that have gone to
- 12 completion. Of those, 56 live born babies with Zika
- related defects, and there have been 7 pregnancy
- 14 losses. Those babies that were lost did in fact have
- 15 Zika related defects.
- 16 If you're wondering about the territories
- and the pregnancies, my data comes from CDC. CDC does
- not report pregnancy outcomes on the territories
- 19 because of the methodology differences and how they're
- 20 reported and/or tracked. CDC has a low confidence in
- 21 the numbers from the U.S. territories. So, that's why
- 22 they don't track those numbers. They are working with
- 23 the U.S. territories to have that capacity. It used to
- 24 be there and then all of a sudden it changed.
- 25 So, Zika is a virus that's been known since

- 1 the 1940s. There was a 2007 outbreak in Micronesia
- 2 that resulted in an estimated 900 cases and a
- 3 population of less than 8,000 people. Over the past
- 4 two years, there's been more than 30,000 suspected
- 5 cases of Zika that were reported from the French
- 6 Polynesia and other Pacific islands. Just about two
- 7 years ago, Zika was identified in Brazil and now in
- 8 the Americas there are tens of thousands of known
- 9 cases.
- 10 With insect season soon to start up again,
- and some places already have, there's a fair amount of
- 12 concern by public health professionals that Zika cases
- may increase. We had a very mild winter this past
- 14 winter, so we're expecting these numbers to go up.
- 15 Zika is closely related to dengue, yellow
- 16 fever, Japanese encephalitis, and West Nile virus. As
- 17 you know, it's primarily transmitted by Aedes aegypti
- or albopictus. The modes of transmission include
- intrauterine and perinatal transmission, sexual
- transmission, laboratory exposure. I think there's
- 21 been one case as far as I'm aware of of lab transmission, and
- 22 a number of cases of blood transfusion.
- So, with the outbreak in Brazil, a
- 24 connection was made between pregnancy outcomes and
- 25 Zika virus. Subsequent studies have determined the

- 1 association between the disease and health outcomes,
- 2 like microcephaly, brain calcifications, and other
- 3 brain abnormalities. There have been sufficient cases
- 4 of birth defects associated with Zika that there is
- 5 now a condition called Congenital Zika Syndrome. So,
- if you hear that terminology, you'll know what it
- 7 means.
- 8 So, this infection has been linked to a
- 9 number of things, including eye abnormalities, hearing
- 10 loss, limb abnormalities such as club foot, as well as
- 11 impaired growth. Most recently, research is ongoing
- 12 related to other health consequences that may be
- associated with Zika Syndrome, including such things
- 14 as epilepsy in these children.
- The other point I want to make is there are
- some babies who are born who appear normal. They have
- 17 brain calcifications. And at the age of around six
- 18 months, they begin to show signs of Zika. The brain
- 19 begins to shrink and the head begins to shrink. So,
- 20 you can have what you think is a "normal" child, but
- 21 in time you find out that the child is in fact
- 22 suffering from defects from Zika.
- Yes, there is a correlation or there has
- 24 been speculation of a correlation between people who
- 25 have been infected with other diseases like dengue and

- 1 such, a correlation between that and Zika. So, in
- 2 Brazil, there is a huge number of women who are
- 3 pregnant and had a number of babies born with Zika.
- 4 It turned out that they also had antibodies for like
- 5 dengue and yellow fever and such. So, they believe
- 6 that there may be some synergistic effect going on in
- 7 the immune system. I'm sure there will be more
- 8 research being done on that.
- 9 So, CDC leads this federal response effort.
- 10 I'll say that again, CDC leads this effort. EPA and
- 11 several other agencies, we help CDC and we meet
- 12 regularly to discuss Zika and address Zika. We
- 13 support CDC with information on integrated pest
- 14 management and pesticide registration and use
- 15 information.
- 16 Combined efforts show that in states where
- 17 local transmission of Zika has been reported, such as
- 18 Texas and Florida, mosquito control and public
- 19 education efforts have succeeded in minimizing the
- impact of disease on human mosquito populations.
- So, what that's getting at, as you'll recall
- 22 this past summer, they were able to contain those
- 23 additional infections by aggressive action with IPM as
- 24 well as spraying of pesticides. So, while I think
- 25 those areas still have what CDC considers yellow boxes

- 1 around them, the number of cases have not increased,
- 2 for the most part.
- 3 Widespread public education campaigns
- 4 address both residents and travelers to the area,
- 5 encourage people in particular, pregnant women, to
- 6 protect themselves from mosquito and Zika. Such
- 7 measures include insect repellants on a regular basis,
- 8 using window screens and other containment measures to
- 9 keep these mosquitoes from coming indoors, which they
- 10 love to do, discard standing water. Tire shredding,
- 11 it's a huge issue in Puerto Rico, huge, tire shredding
- 12 and removal, as well as avoiding areas where Zika
- transmission can take place. So, there are travel
- 14 related warnings as well.
- This next slide I sort of love because while
- 16 the federal responses work to achieve comprehensive
- 17 and sustained efforts on mosquito control, in light of
- 18 Zika and other mosquito-borne diseases, and other
- 19 diseases in general, the challenge remains. So, the
- 20 black areas indicate those mosquito control
- 21 districts that are active in those states that have
- 22 not given up on mosquito control. So, they have
- active mosquito control activities going on. The
- 24 white mass are those states that do not. So, this is
- 25 a very poignant slide, I think.

- So, not all parts of the country have a
- 2 robust mosquito control program and/or adequate resources.
- 3 So, some of the states used to have very active
- 4 mosquito control districts. As their budgets got
- 5 smaller and smaller, they decided to cut back on
- 6 things like mosquito control in public health. So, as
- 7 a consequence, they're not quite ready.
- 8 So, it's sort of patchwork here in the
- 9 United States. There are more than 700 mosquito
- 10 control districts in the contiguous U.S., but there are
- 11 a large number of states where no local level mosquito
- 12 control districts exist.
- 13 CDC and EPA are reaching out to states that
- 14 provide help to do this. We need to control both
- 15 larvae and adult mosquitoes, control surveillance of
- 16 mosquito populations, their resistance, and increase
- 17 personal protection largely through community wide
- approaches. We also need to establish vector control
- 19 units in Puerto Rico. Of course, we're always looking
- for new tools and techniques that we can use.
- 21 Many of the efforts that are needed to
- 22 reduce mosquito populations rely upon actions of
- 23 property owners and residents to remove breeding
- 24 sites. Folks, this is where the federal and state
- 25 authorities have little control. So, we're talking

- 1 about your backyard. So, if you've got standing
- 2 water, tip and toss. Teach your children how to do
- 3 it. Those are breeding grounds for mosquitoes.
- 4 There's a bright side, and there's a bright
- future ahead, I believe. I'm going to be the optimist
- 6 here. While EPA -- this not our area of work. I
- 7 thought it would be important to put up a slide here
- 8 on vaccine development. I'd like to report that
- 9 vaccine development is underway and is looking
- 10 promising. According to recent articles, it looks
- 11 like there is promising news on the vaccine front.
- 12 You can look up those articles and take a read when
- 13 you get a chance.
- Just so you know, phase one trials of
- 15 vaccine development are ongoing, and they're looking
- 16 toward phase two. During phase one, small groups of
- 17 people received the trial vaccine. In phase two, the
- 18 clinical studies expanded, and the vaccine is given to
- 19 people who have characteristics similar to those for
- 20 whom the new vaccine is intended. In phase three, the
- vaccine is given to thousands of people and tested for
- 22 safety and efficacy.
- 23 At this point, the vaccine can be licensed.
- 24 Even though there's still a phase four, which roles
- out ongoing studies of the vaccine. Use of live

- 1 attenuated vaccine is the best kind to give the best
- 2 response. So far, the vaccine match seems to be very
- 3 good for live attenuated vaccine. So, that's some
- 4 good news.
- 5 The antibody response is reported stronger
- 6 than response to the actual virus. So, good news
- 7 there. All this means that we may have a viable
- 8 vaccine. I don't want to throw out a time frame, but
- 9 we're probably looking at a year to two years. I
- 10 really can't put a time frame on it. Certainly, this
- is not EPA's area of expertise. This is certainly
- 12 information from CDC.
- 13 In the meantime, especially starting this
- 14 year and continuing, a strong partnership of federal,
- 15 state, and local level officials have improved methods
- and approaches for controlling the mosquitoes and
- 17 primary carriers of Zika. CDC and the states have
- 18 strongly coordinated surveillance systems to monitor
- 19 public health. CDC also worked hard during the
- 20 winter, and I have to give them a whole lot of credit,
- 21 to increase awareness and communications, closely
- 22 collaborating with state agencies and mosquito
- 23 control boards.
- I mentioned that we meet with CDC on a
- 25 regular basis, and this is one of the suggestions that

- 1 EPA provided CDC, that we use this winter as a time to
- 2 prepare and train and develop and come up with
- 3 community strategies. CDC has done just that. They
- 4 have just been all over the place communicating,
- 5 giving seminars and webinars and talking to states, et
- 6 cetera, and communities. So, hats off to CDC.
- 7 Some mosquito control districts have ramped
- 8 up as a result not only their own hiring, training,
- 9 and preparedness, but also the information that they
- develop and disseminated in the communities. This is
- 11 a community effort if we're going to be successful.
- 12 Because it is a public health emergency, EPA
- is also expediting registrations. You all are aware
- of that. We have expedited registrations, including
- 15 emergency exemptions or Section 18s, and registration
- 16 amendments for pesticides and repellants that have or
- 17 want Zika claims.
- 18 At this point, I'm going to turn it over to
- 19 my colleague, Yu-Ting, who is going to walk you
- 20 through some of the eco and health risk assessments
- 21 for mosquito control pesticides.
- MS. GUILARAN: Thanks, Arnold. So, I have a
- 23 couple slides to go through just to update folks on
- 24 the pesticide tools that are available and are going
- 25 through the registration review process right now.

- 1 As you can see, a lot of them, they are
- 2 insect growth regulators with a couple that are
- on this slide. A few of the organophosphates are also
- 4 on this slide. Then, the next kind of class of
- 5 chemicals that we have here is pyrethroids.
- They're in the various stages of the reg
- 7 review process right now. For a good handful of them,
- 8 the risk assessment is planned for this year. For a
- 9 few of these, the risk assessment has been completed
- and has been published. We have gotten the comments
- 11 from the public comment process. So, that spinosad
- 12 and also malathion. And then we have ones that are
- 13 planned this year in 2017. We have naled and DDVP.
- 14 And then chlorpyrifos, obviously, the human health
- risk assessment was out back in November.
- 16 For the pyrethroids, we have the ones -- all
- 17 the ecological risk assessments have been completed.
- 18 The human health, a handful of them, did go out with
- 19 the first batch. So, we're in the process of
- 20 completing human health risk assessments. So, that
- 21 includes the last chemical that's on the slide and all
- of the following slide, 15, here.
- So, as you can see, some of these we have
- the assessment completed, and we will be soon
- 25 extending the comment period once the Federal Register

- 1 notice is out, like what I said this morning, and then
- 2 that will get another 60 days for people to submit
- 3 comments to us.
- 4 So, our overall plan for the pyrethroids is
- 5 that we'll come out with our proposed interim decision
- in 2018, following getting the comments from the
- 7 public and assessing them and see if there's any
- 8 change that we need to make. So, that's overall the
- 9 schedule.
- 10 So, moving on to slide 16, just to reiterate
- 11 that, the public input is really important to the reg
- 12 review process. These are the chemicals that have
- 13 been used for a long time. We know that a lot of
- 14 times the label and use patterns drive the risk. So,
- 15 it's really important for us to get feedback on detail
- 16 use and usage information, especially data that will
- 17 be the most helpful.
- Then, geographic location of use can
- 19 sometimes help us refine the risk. And then, also,
- 20 after we have had a chance to look at all the risk
- 21 assessments in terms of developing risk mitigation
- 22 strategy, that's another area that we will solicit
- 23 input and also work with the registrants and different
- 24 stakeholders, USDA, then grower groups, or other CDC,
- 25 for example, to figure out different ways to mitigate

- 1 a risk. Then, lastly, as an overall, the risk benefit
- 2 balancing that I talked about this morning as well.
- 3 MR. LAYNE: Thank you, Yu-Ting. So, moving
- 4 on to the next slide, I'm not going to spend a lot of
- 5 time on it because you are well aware and
- 6 knowledgeable about some of the things that we're
- 7 doing that go beyond conventional pesticides.
- 8 We're also reviewing the new methods for
- 9 controlling mosquitoes, currently assessing for safety
- 10 and efficacy. That includes Wolbachia and Oxitec.
- 11 So, I'm not going to spend a lot of time. I think Bob
- McNally and his group have done a fantastic job
- talking about that, so I won't spend a whole lot of
- 14 time here.
- I talked to some children, just to put a
- 16 little smile on your face because it made smile. We
- 17 had a bring your son or daughter to work day. I had
- 18 to give an opening because my boss here didn't have
- 19 time to do it. I was trying to be nice. So, I had a
- 20 blast teaching them about many things, but of course I
- 21 had to bring up Zika and mosquitoes.
- So, one of the coolest things that they
- 23 really appreciated and learned -- or actually two
- things. One is they will keep on their parents about
- 25 tipping and tossing. Number two, they were amazed to

- find out that just girl mosquitoes bite. So, I had a
- 2 good time with them.
- 3 Anyway, the next slide on IPM. Bob, jump in
- 4 at any time. You've done quite a bit of work in this
- 5 arena. So, obviously, vector-borne diseases pose
- 6 significant public health problems. We all know that.
- 7 There's wide recognition that implementing IPM
- 8 techniques is so critically important to successfully
- 9 controlling disease vectors.
- I want to stress that EPA strongly supports
- and is a huge proponent, and advocate for IPM, as we
- 12 work with CDC and state agencies to monitor mosquito
- populations and target control measures, inform and
- 14 engage the public and ultimately reduce vectors.
- 15 EPA plays a critical role in evaluating and
- 16 streamlining registration process for many new novel
- 17 and emerging pesticide technologies. We also provide
- guidance and expertise in safe and effective use of
- 19 EPA registered pesticides as part of an overall vector
- 20 management program. Obviously, when you're in
- 21 situations like this, sometimes there could be quite a
- lot of misuse. So, we do our best to make sure that
- doesn't happen through education.
- 24 This next slide I'm going to hand it over to
- 25 Bob. It's some of the stuff that he and his folks

- 1 have been doing in Texas with the IPM Center of
- 2 Expertise.
- 3 MR. MCNALLY: Thanks, Arnold. So, as a lot
- 4 of you know, we've talked before, we have an IPM
- 5 Center of Expertise in Dallas. As Arnold alluded to,
- a lot of the benefits of IPM accrue as part of an IVM
- 7 program. What we've done is supplemented the work of
- 8 that group to include some IVM work.
- 9 We've added Ken McPherson, who
- 10 was the region's sixth IPM coordinator, on a detail to
- 11 the center starting this month. Ken's background is
- 12 he was at the Defense Department before he joined EPA.
- 13 He was sort of their expert on IVM and led efforts in
- 14 the Pacific theater. So, we feel we have not only a
- 15 national expert but an international expert to help
- 16 us. I think where we help the cause of CDC is we
- 17 bring the knowledge of pesticides to the table.
- How do you combine that with IPM and an IVM
- 19 program? To help some of those local communities that
- 20 Arnold highlighted on the chart a little bit earlier
- 21 that had the white space, that don't have an active
- 22 mosquito control program, we think we can help with
- 23 our expertise in those areas and others to help people
- deal with these issues as they come up, hopefully not
- 25 this summer. But if they do, we want to stand ready

- 1 to be helpful.
- 2 MR. LAYNE: So, IPM partnership
- 3 opportunities, CDC again is the lead federal agency
- 4 for responding to public health emergencies, including
- 5 vector-borne diseases. This also means that they are
- 6 also the lead for recommending mitigation techniques
- 7 to state and local agencies to address both disease
- 8 and pest mitigation.
- 9 Recently, CDC awarded nearly \$40 million to
- 4 universities to establish centers that can help
- 11 effectively address emerging and exotic vector-borne
- 12 diseases in the United States. Since there are
- 13 significant regional differences in vector ecology,
- 14 disease transmission dynamics and resources across the
- 15 country, the centers are geographically disbursed and
- 16 include the University of Florida, the University of
- 17 Texas Medical Branch at Galveston, the University of
- 18 Wisconsin in Madison, and Cornell University.
- 19 So, CDC has done quite a bit again. I can't
- thank them enough, and also their willingness to come
- 21 together as a federal body. Several agencies came
- 22 together, including the White House and others on this
- 23 very important issue.
- Next slide, please. So, that leads to --
- and I can't tell you how much I appreciated in the

- 1 last PPDC, which is my first one in probably 15 years
- 2 that I had been to, but just the overwhelming support from
- 3 folks saying that they really would like to help in
- 4 any way they can, help the Agency and help in this
- 5 effort.
- 6 So, they wanted to bring back or
- 7 reconstitute the public health workgroup. We took
- 8 that back and we thought about it. We decided that we
- 9 would like to move forward with that. So, with that
- in mind, we agreed.
- 11 There are some caveats, however, so that we
- do not get in trouble. One is there needs to be a
- defined time line. So, you're looking at a one to two
- 14 year group. We really need to decide an area that
- 15 we're going to focus on, or areas that we're going to
- 16 focus on. So, sort of a finite set of areas that we
- 17 would be charged with. It could just be one or it
- 18 could be many.
- I thought I would throw out just one up
- there. We are hoping to hearing from you, obviously,
- 21 but I thought I'd get the conversation started. So,
- 22 what we're proposing is -- and by the way, this is not
- just open to PPDC. We need at least one full-time
- 24 member of the PPDC on this workgroup, and I imagine
- 25 that I will not have a problem getting at least one

- person, right, Dawn?
- 2 MS. GOUGE: I actually rotate out.
- 3 MR. LAYNE: Oh, you do? Oh, no.
- 4 MS. GOUGE: I'm afraid so.
- 5 MR. LAYNE: Well, you can still be on a
- 6 workgroup. So, anyway, I'm sure there is at least one
- 7 person staying on the PPDC who would be interested in
- 8 helping us.
- 9 In any event, I thought that perhaps a
- 10 discussion on Zika and other emerging pathogens,
- 11 because they seem to be coming constantly, would be
- 12 someplace to start. But there are a plethora of other
- 13 topics that fall under this category of public health.
- 14 So, we'd like to hear from you some of those
- 15 suggestions and whether you're interested in serving
- on a group.
- I will tell you that I would like to keep
- 18 the group to no more than 20. Otherwise, it gets
- 19 unwieldy. If you can send me or Dea, or actually send
- 20 to Dea, your suggestions, A, if you want to
- 21 participate and B, some areas for consideration that
- 22 we can talk about and work on. That would be
- 23 fantastic.
- 24 The next slide is just some discussion
- 25 questions. I don't know if we still have time to do

- 1 that. I have 12 minutes left, and that was just from
- 2 my presentation.
- 3 MR. KEIGWIN: Are you asking for a
- 4 well done or something?
- 5 MR. LAYNE: Yes, and some water. Jackie
- 6 professed to be from New York. I'm from New York as
- 7 well. I think I went faster than her.
- 8 Anyway, we've got a couple questions for you
- 9 to consider. Do you agree that the formation of a
- 10 public health workgroup is ripe? I see some thumbs
- 11 up. Yes? So, we want to move forward with that.
- 12 Again, please provide feedback and ideas on
- 13 the charge that I proposed that perhaps we focus on
- 2 Zika. But I'm open to whatever you think is most
- 15 important and something that is well defined and that
- 16 we will be able to complete within a reasonable amount
- 17 of time. Send that information to Dea by May 17th.
- 18 What would be the benefits that EPA, and not
- just EPA, but everyone, could gain from this
- workgroup, focusing on Zika, if we were to go down
- 21 this path? It's something to think about.
- 22 What other areas of public health and
- 23 emerging pathogens would you advise would be
- 24 appropriate for the workgroup to undertake?
- 25 Again, do you have any additional

- 1 suggestions for us to consider?
- 2 So, some discussion questions. With that, I
- 3 open it up to you all.
- 4 MR. KEIGWIN: So, why don't we start with
- 5 Fred, then Robyn, then Amy.
- 6 MR. STELL: Thank you. I just want to add
- 7 that I think this formation of a public health
- 8 workgroup would be -- DOD would be very interested in
- 9 sending a representative from the Armed Forces Pest
- 10 Management Board. We deal with not only items for the
- 11 public health toolbox to be used on our installations,
- but also our overseas contingency operations, as well
- as some of the unique challenges that DOD faces with
- 14 aircraft disinsection. That may also affect
- 15 Department of Transportation.
- We've seen with disinsection being
- implemented for public health purposes for entry into
- other countries, it's very important to stay engaged
- 19 with those topics. We'd definitely like to be
- involved.
- MR. LAYNE: Wonderful. So, we've got at
- least one PPDC member, so we can form a workgroup.
- MR. STELL: This is supposed to be my last
- 24 meeting, but my replacement definitely would like to
- 25 be involved.

- 1 MR. LAYNE: Is there anyone here who --
- 2 MR. KEIGWIN: Everyone is going
- 3 through membership.
- 4 MR. LAYNE: Everyone is going. Oh, geez.
- 5 MR. KEIGWIN: Some folks are term limited
- 6 and couldn't apply for renewal.
- Robyn, then Amy, then Marc.
- 8 MS. GILDEN: So, I've got to get myself
- 9 together here because I have a couple of disparate
- 10 comments to make. Yes, I think a public health
- 11 workgroup is awesome. As for who can represent from
- 12 the PPDC, you're losing three of the four existing
- 13 public health representatives. So, Amy, it looks like
- it's going to be you. I mean, I'm hoping that you're
- 15 going to replace the public health representatives.
- I'm willing to help, but I'm term limited off.
- 17 MR. LAYNE: Thank you.
- 18 MS. GILDEN: As for the IPM workgroup, I was
- 19 privileged enough to serve on that for the six years
- 20 that I've been on it. I'm very disheartened and
- 21 disappointed to see that is not going to continue
- 22 as the school IPM. I'm getting ready to give a talk
- 23 to the School Nurses Association on Tuesday. I don't
- really see any follow up from the roundtable, which
- 25 they were an important part of. So, I will continue

- 1 that conversation on behalf of the EPA.
- 2 I'm going to take the prerogative to talk
- 3 about something that we weren't supposed to talk about
- 4 because it's my last meeting. Just to say that on
- 5 chlorpyrifos, the update that we were given, you
- 6 denied a petition from March 29th requesting
- 7 revocation of the tolerances that was submitted by the
- 8 Pesticide Action Network and NRDC. Then you say that
- 9 the neurodevelopmental effects are still unresolved
- and we're looking into it. So, you're not going to do
- anything further until October of 2022.
- This is mind boggling. You say the
- 13 neurodevelopmental effects remain unanswered, but yet
- 14 you won't do anything to take it out of the food until
- 15 it's answered. But then, you're still allowing it to
- be in the food. So, that's just my comment.
- 17 MR. KEIGWIN: Bob, did you want to address
- anything about follow up to the school IPM?
- MR. MCNALLY: Yes, thanks, Rick. So, we are
- following up, Robyn, with the group. I think you guys
- 21 were aware of the work that we did about this time
- last year. That work continues. We're trying to get
- a sense of what activities they are pursuing on their
- 24 own and how we can help them in that follow through.
- 25 Our commitment last year was over a three-

- 1 year period to continue in that vain. I think the one
- thing within EPA is that I think, Rick, this year it's
- 3 no longer on the list of regional priorities. So, the
- 4 regions will not have that as something they can
- 5 pursue. But our intention is to continue our efforts
- 6 through the Center of Expertise in Dallas in the areas
- 7 that we have control over here at headquarters.
- 8 MS. GILDEN: I know you've been working with
- 9 NEHA, but I don't know how aggressive
- 10 you've been working with the other participants that
- 11 participated in the roundtable. The only nursing
- organization I'm aware of is the school nurses. I've
- not seen anything that they've been doing. I was
- 14 invited to talk at this conference on Tuesday, and
- 15 they asked me, we don't have anything on environmental
- 16 health. Can you come present on environmental health?
- 17 I was like okay, sure.
- 18 MR. MCNALLY: Thanks. We've be happy to
- meet with you and share some of the things that we're
- doing and some of the members of the roundtable who
- 21 are following up on their own. I don't recall offhand
- 22 all the different groups, but we're happy to talk to
- you about what they're doing.
- MR. KEIGWIN: Amy, then Marc, then Dawn.
- MS. LIEBMAN: Thanks, Robyn, for those

- 1 comments. Thanks for that presentation on Zika.
- 2 That's a really important issue.
- 3 I resubmitted my application or nomination.
- 4 So, if I'm around, I would be happy to serve on this.
- 5 I do suggest, and this is a suggestion from the past,
- 6 I think we should be careful with the term public
- 7 health. I think it should be the public health and
- 8 emerging pathogens group because it's a pretty broad
- 9 topic and there's lots of public health issues
- 10 relating to pesticides. So, I think that would help
- 11 clarify that somewhat.
- 12 Then the other comment I wanted to make is
- in terms of the work that you're doing with CDC. I
- think that's great that you're such a strong partner
- 15 with CDC. But one thing, EPA, believe it or not, is
- 16 actually ahead of CDC in terms of clinician education
- 17 regarding the recognition and management of pesticide
- 18 poisonings.
- I think that there's a lot of --
- 20 particularly when we're looking at the types of
- 21 pathogens that you mentioned and Zika and the type of
- 22 pesticides that are used to control mosquitoes and are
- 23 being used to control mosquitoes and used to control
- 24 Zika, that there's got to be a really important part
- of the outreach that you do to make sure that

- 1 clinicians are very much aware of the health effects
- of the pesticides that are being used. There's
- 3 several organophosphates that are involved.
- 4 There's a community piece and the outreach
- 5 piece, but in terms of advising CDC, because they tend
- 6 to ignore this part of it, is that take note from what
- 7 EPA has done in terms of trying to help educate
- 8 clinicians. That should be a key piece of the
- 9 outreach that they're doing in terms of the role
- 10 that's used for Zika and other emergent pathogens.
- 11 MR. LAYNE: Thank you, Amy, for that. I
- 12 will pass that along.
- 13 MR. KEIGWIN: Okay, Marc, then Dawn, then
- 14 Gabrielle.
- 15 MR. LAME: So, I'm rotating off. This is an
- 16 interesting workgroup. I'm pretty sure that Bob told
- me that the reasons they got rid of all the other
- 18 workgroups and had this term period is to make sure
- 19 that I'm not around to bother you people anymore. At
- any rate, I might say that as a parting member that
- 21 this type of public service is very rewarding, and I
- 22 appreciate the opportunity.
- 23 As far as this type of program, I think it's
- 24 a smart move. When I heard, and I did hear that they
- 25 were moving from school integrated pest management,

- 1 the center of the universe, to this, I actually
- 2 thought it was a good idea.
- 3 My recommendation is to utilize the
- 4 infrastructure that you already have in place. You
- 5 have a vast infrastructure of a number of different
- 6 governmental agencies, but also of change agents for
- 7 integrated pest management that are well versed in
- 8 this.
- 9 In fact, in my opinion, probably the best
- 10 mosquito district, the most advanced mosquito district
- in the country, is New Orleans with Claudia Riegel.
- 12 She was part of a team that Dawn and I
- were on that did education to public health folks
- 14 throughout the country. Claudia is just the best.
- 15 Her facility is the best that I know of. So, I'll
- 16 volunteer her.
- 17 MR. LAYNE: Please do. And I assume that
- 18 you're volunteering yourself as well, right?
- 19 MR. LAME: If asked, I will serve, but
- 20 you've got to deal with your own folks.
- 21 MR. LAYNE: I have to hear from you that
- you're interested by May 17th, right?
- MR. LAME: Yes, you'll hear.
- MR. LAYNE: All right, thank you.
- 25 MR. LAME: So, what has happened both with

- 1 CDC and EPA with regard to integrated pest management
- 2 in different ways is the digitalization of a wholesale
- 3 approach to get information out. Where I see the
- 4 value of that, to some extent, I think in this type of
- 5 situation, you really have to do both. You have to go
- 6 back to a retail approach going into specific areas
- 7 with your experts and integrated team, as it were, and
- 8 deal with situations. It will literally be saving
- 9 lives at that point, rather than a theoretical thing
- about let's get out more information and count beans.
- 11 So, I think that that's really important. This is
- something that Fred understands well when we get into
- 13 that kind of stuff.
- 14 Then, finally, I would say that a strategic
- 15 plan for the Center on Expertise is something that is
- 16 definitely needed, would be probably in consultation
- 17 with your administration, would be one of the most
- important first steps that you can take towards this.
- 19 So, thank you.
- MR. KEIGWIN: Dawn, then Gabrielle, then Lori
- 21 Ann.
- MS. GOUGE: Thank you. I am thrilled that
- 23 you're forming a public health workgroup. Thank you
- 24 so much for that. I'm disappointed that I'm not going
- 25 to be here in person, but I will serve. Happy to

- 1 serve.
- I did want to point out, as we recognize
- 3 that school IPM, the Center will not focus on school
- 4 IPM, I'm also very thrilled that they're going to
- 5 focus on vector. I think Ken will be an awesome
- 6 addition to that team.
- 7 But I did want to let everybody know that
- 8 there is still a national school IPM steering
- 9 committee and full workgroup, regional workgroups
- 10 around the country, focusing on school IPM. So, we'll
- 11 stay connected on what's happening.
- 12 I wanted to add a few sobering statistics to
- 13 what Arnold shed in his report. That is if you add
- 14 the microcephaly cases at birth with the post-partum
- 15 cases that develop over time, it's close to 1 in 10
- 16 babies are impacted. If you look closer at those moms
- 17 that had Zika in their first trimester, it's closer to
- 18 1 in 7. So, this is a really significant issue.
- I would also like to encourage the new
- 20 public health workgroup that yes, a focus on Zika for
- 21 sure, at least initially. But we do have significant
- issues with ticks as vectors and also bed bugs, not as
- 23 vectors. But I would really encourage even maybe if
- 24 it's possible to form subgroups within your team at
- 25 some point. And then, with regard to additional

- 1 suggestions, vector resistance issues, for sure.
- Thank you very much. And thank you so very
- 3 much for the experience and the ability to serve.
- 4 I've really enjoyed it.
- 5 MR. KEIGWIN: Gabrielle, then Lori Ann, then
- 6 Jim.
- 7 MS. LUDWIG: So, a couple things. I mean,
- 8 public health is not necessarily my forte. Actually,
- 9 Dawn, you mentioned some of the things I was going to
- 10 mention. Certainly, as a hiker around this area,
- 11 ticks and the diseases they transmit is becoming much
- 12 more of an issue. I do think that whoever said we
- 13 need to define this carefully --
- 14 Really, what we're talking about is mosquito
- 15 control. It's not just Zika. You've got a whole
- bunch of other diseases that are mosquito related.
- 17 Zika is just the one that's giving us the heebie jeebies,
- 18 rightfully so, and so I think that definition of being
- 19 clear on how we're defining it.
- The flip side of it is, and I think since
- 21 we're the PPDC, is you have this tension of the
- 22 benefits of the pesticides and the risks of the
- 23 pesticides. So, somewhere there has to be some more
- conversation about that. The risks are not only the
- 25 human health risks or the environmental risks, but

- 1 there's even an ag risk that I think we have one
- 2 almond load that supposedly got rejected because it
- 3 had pyrethroid residue. We didn't have an MRL in the
- 4 EU. That's being blamed on a mosquito spray. I don't
- 5 know if that's totally factually true, but I'm just
- 6 saying there's little things like that that can come
- 7 up as well.
- 8 So, I think what I would like to see is help
- 9 you get the advice of what are the things that you as
- 10 the Agency need to think about as you're trying to
- 11 find additional tools to help minimize the mosquito or
- 12 tick or I've recently had to deal personally with bed
- bugs. So, I am quite versed now in how to deal with
- 14 them, because I did not get professional help when I
- wanted it, so I had to figure it out on my own.
- 16 And then the full resistance management and
- 17 dealing with the public on it is -- I haven't really
- 18 heard a clear statement of how do we look at the risks
- and the benefits and manage that and the
- 20 communications of it, given that we have a real public
- 21 health risk from the mosquitoes and the ticks.
- MR. KEIGWIN: Lori Ann, then Jim, then
- Nichelle.
- 24 MS. BURD: First a question and then a
- 25 comment. Do we have any information about Zika? My

- 1 understanding is that a Zika mosquito needs to bite an
- 2 infected person, and that's the way the mosquito gets
- 3 infected with Zika. And it's not transmitted mosquito
- 4 to mosquito. Is that correct? So, my question is
- 5 whether the host could also be an animal. Just
- 6 curious whether it could be a dog, cat, wild animal,
- 7 primate.
- 8 MR. LAYNE: The hosts in the U.S. at
- 9 least are humans. There are some primates that kind
- 10 of also serve as a reservoir, but humans would be the
- 11 only reservoir here.
- 12 MS. BURD: Thanks. My comment is because we
- 13 know Zika is sexually transmitted, I would encourage
- 14 the use of condoms and condom distribution as an IPM
- 15 method, especially for women who are pregnant or may
- 16 be pregnant who may be taking all the good measures
- 17 we've been talking about, but may have a husband who
- is not being quite as cautious, to ensure that we're
- 19 looking at all the modes of transmission and not just
- the mosquito-borne modes.
- MR. LAYNE: We dealt with that issue with
- 22 some of the U.S. territories. It is a very difficult
- issue because there's religion that comes into play.
- There's just a plethora of issues that come into play.
- 25 I think there's talk about that.

- 1 I'll use Puerto Rico as an example. 2 turned out to cause some concern that kits were being 3 passed out that contained contraceptives. Also, it gives a connotation that the husband may be doing 5 something that he should not be doing outside of his vows. But, quite frankly, he could have gotten bit. 6 7 Apparently, the virus hides in the male testicles. 8 They don't know for how long. 9 So, you can encourage. I think that's all 10 the concern that you've heard about telling women who
- the concern that you've heard about telling women who
 are thinking of getting pregnant to avoid areas of
 Zika transmission, of local transmission in
 particular, and also in men. It's rare, very rare
 that I hear about the male part of this dynamic.
- 15 It's a real issue because the woman can do
 16 all she can if she wants to get pregnant and not
 17 realize that her partner actually had been infected
 18 until she gets that sonogram. So, that's a very
 19 touchy issue from a religious standpoint in some parts
 20 of the United States. But thank you for that.
- 21 MR. KEIGWIN: Okay, Jim and then Nichelle.
- MR. FREDERICKS: So, not to diminish the
 importance of Lori's comments, I think it definitely
 has merit. But I like the idea of birth control being
 described as pest control. So, maybe if someone would

- 1 have explained it to me that way, I would have got the
- 2 hint.
- Then, also, if anyone finds themselves in a
- 4 situation where, as Gabrielle did with bed bugs, we'd
- 5 certainly be able to point you in the right direction
- of a professional having to do that.
- 7 So, from NPMA's point of view, definitely
- 8 thanks to Arnold and your team for all the hard work
- 9 that you've been doing with regard to Zika. For sure,
- 10 I know that it's taken more time probably than you
- 11 ever imagined, but it's important work, and we commend
- 12 the Agency for it.
- I wanted to also then just reaffirm the
- 14 structural pest management industry's commitment to
- integrated mosquito management, IPM. We found
- 16 ourselves in a unique position because oftentimes we
- don't think about mosquito control as being a
- 18 structural pest management issue. But with these
- 19 mosquitoes, with Aedes mosquitoes, oftentimes what you
- 20 have is a mosquito that is uniquely adapted for living
- 21 with humans and living around humans.
- The structural pest management history has
- 23 150,000 trained technicians that are visiting between
- 8 and 12 houses a day. So, the boots on the ground
- in the backyards tipping and tossing. So, I'd be

- 1 happy to serve on the workgroup. I think I do want to
- 2 echo the idea that right now Zika is important. It's
- 3 up on the top of mind.
- 4 But we also shouldn't ignore some of the
- 5 other public health threats with regard to ticks,
- 6 obviously Lyme disease, as well as the other mosquito-
- 7 borne illnesses, and the other public health threat
- 8 that pests in general also present, such as
- 9 transmission in food-borne illness, that sort of
- 10 thing. So, thanks.
- 11 MR. LAYNE: Thank you. There's a new tick
- 12 disease. There's one case in Connecticut that I just
- 13 read about. I can't remember the name of it. So, it
- 14 is definitely an issue, broad issue. So, ticks will
- 15 be an issue this year as well. And this particular
- one hadn't been seen in quite some time. It's a lot
- more deadlier.
- 18 MR. KEIGWIN: Nichelle.
- 19 MS. HARRIOTT: I just have two very quick
- 20 comments on this very important issue. With regard to
- 21 the registration review of the pesticides that are
- 22 registered for mosquito control, I am urging the
- 23 Agency to take a very deliberate stance in conducting
- their assessment for mosquito exposures because it's
- 25 very important that people have all the information

- 1 available regarding human health exposures to the use
- of the pesticides for mosquito control.
- And then secondly, just echoing what has
- 4 already been said around the room when it comes to
- 5 public education. Again, it will be very helpful,
- 6 especially for local officials who are tasked with
- 7 making decisions for mosquito control, that they are
- 8 aware of some of the human and environmental health
- 9 risks when it comes to making these applications so
- 10 they have all the information to make an informed
- 11 decision.
- 12 MR. KEIGWIN: Are there any PPDC members on
- 13 the phone that wanted to make a comment? We'll open
- 14 up the lines.
- 15 (No verbal response.)
- 16 MR. KEIGWIN: All right. We have one person
- 17 here in the room that signed up for public comment,
- 18 and she promised me it would be no more than three
- 19 minutes. So, Julie.
- MS. SPAGNOLI: I just wanted to go back and touch
- on the GHS labeling issue. We looked at this many
- 22 years ago. One of the issues is converting from the
- 23 current pesticide labeling categories to GHS
- eliminates the caution category. There is no caution
- in GHS.

- This would not be such a big issue just for
- 2 registrants just to relabel their products and not
- 3 have caution on their label, but there's a lot of
- 4 implications. School IPM programs, municipal IPM
- 5 programs, procurement programs, a lot of these
- 6 programs utilize that caution signal word as a
- 7 criteria. So, with the caution signal word going away
- 8 completely, it could have implications. So, you would
- 9 need a fairly robust public education effort to
- 10 explain that.
- 11 In addition, also like extension programs
- that explain labeling to consumers, they'll often
- 13 refer to caution, the caution category. So, one of
- 14 the things to think about in considering GHS should
- 15 that caution category go away, that could cause some
- 16 significant downstream effects.
- 17 MR. KEIGWIN: Thanks, Julie.
- Dawn, did you have a comment?
- 19 MS. GOUGE: Just a quick comment in response
- 20 to that. So, there's already a great deal of
- 21 confusion because the SDS signal words are harmonized
- or whereas the label signal words are quite often different.
- So, there's already a lot of confusion. So, I'm keen to
- just have it all the same. Yes, you're absolutely
- 25 correct, some education would definitely be warranted.

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1
                MR. KEIGWIN: Thanks, Julie.
 2
                 If there's anyone on the phone that wanted
 3
      to make a public comment, we'll open up the line.
      Anyone participating over the phone that wanted to
 4
 5
      make a public comment?
 6
                 (No verbal response.)
                MR. KEIGWIN: Okay.
 7
                 MR. HANSON: I'm Jaydee Hanson with the
 8
 9
      International Center for Technology Assessment. We
10
      have commented on the FDA's docket with respect to
11
      genetically modified mosquitoes. In those comments,
12
      we've actually recommended that the EPA, because of
13
      your better experience in evaluating insects, should
      actually be in charge of all of the genetically
14
15
      engineered, sterile insects, whether they're at FDA or
16
      whether they're at USDA. We believe that the EPA
17
      should be the first stop on that.
18
                 With respect to your new task force that
19
      you're talking about, part of my background is in
20
      bioethics. I think you're in some ways with the way
21
      you're dealing with Zika walking out on some dangerous
22
      grounds in ethics.
23
                 There are many things that cause
24
      microcephaly.
                      (b)(6)
                          Fortunately, it's one of the more
25
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- 1 treatable. But alcoholism causes microcephaly.
- 2 Toxoplasmosis causes it. There are many things.
- 3 Part of the job that we need to be doing is making
- sure the public gets good information. A few years
- 5 ago Alaska had the most cases of microcephaly. It's a
- 6 serious illness. It's a serious birth defect. There
- 7 are (inaudible) that cause it as well.
- 8 So, as the EPA and the CDC do their work,
- 9 this is awful. No child should be born this way. But
- 10 there are many other conditions, including a number of
- 11 chemicals, that cause microcephaly. So, please be
- 12 careful how you deal with that.
- 13 I would urge that your task force actually
- 14 look at all of the arboviruses. There have been over
- 15 2,000 people die from West Nile disease in the United
- 16 States since that epidemic began, one of my neighbors
- 17 here in northern Virginia. So, I would urge you to
- 18 look at all the arboviruses and educate about
- 19 microcephaly in a more complete manner. Thank you.
- 20 MR. KEIGWIN: Okay, thank you. That
- 21 concludes today. Thank you all for sticking through
- 22 the entire time. Tomorrow we're starting at 8:30. I
- think I mentioned earlier we have a couple hundred
- 24 people who have registered to attend in person, so
- 25 that will make -- oh, sorry, 100 total. I overspoke.

Τ,	Nevertheless, that still means getting through
2	security will likely take you a little bit longer.
3	So, please try to plan accordingly.
4	The other thing I think I should mention for
5	PPDC members, because of the additional people, we
6	will not have coffee here. So, bring some. You may
7	need it. But factor that into your time getting to
8	the building.
9	I think that's it. Thanks for the great
10	discussions today and the input. We really do
11	appreciate it. Have a good night.
12	(Whereupon, the meeting was
13	adjourned.)
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1	CERTIFICATE OF TRANSCRIPTIONIST
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5	UNITED STATES
6	ENVIRONMENTAL PROTECTION AGENCY
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9	PESTICIDE PROGRAM DIALOGUE
10	COMMITTEE MEETING
11	DAY TWO - MAY 4, 2017
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15	
16	Conference Center - Lobby Level
17	2777 Crystal Drive
18	One Potomac Yard South
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20	Arlington, VA 22202
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1	PROCEEDINGS
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3	MR. KEIGWIN: Welcome, everyone, to the
4	second day of the Pesticide Program Dialogue Committee
5	Meeting. For those of you who weren't here yesterday,
6	I am Rick Keigwin. I'm currently the Acting Director
7	of the Office of Pesticide Programs.
8	We're going to be spending the morning today
9	getting public input on potential regulatory reform
10	efforts in response to President Trump's Executive
11	Order 13777. I want to thank in advance all of you
12	who have come to participate in this meeting in person
13	and to those of you that are joining us over the
14	telephone.
15	Just a little bit of background on this new
16	executive order. President Trump issued the order
17	entitled "Enforcing the Regulatory Reform Agenda" on
18	February 24th of this year. In that order, it directs
19	each agency to develop a regulatory reform task force
20	to oversee the evaluation of existing regulations and
21	to make recommendations about potential repeal,
22	replacement, or modification of those regulations.
23	The executive order also requires the task force to

seek input from a variety of entities significantly

affected by EPA regulations. So, that's one of the

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- 1 purposes of today's meeting.
- 2 In March of this year, EPA Administrator
- 3 Pruitt issued an Agency-wide memorandum on
- 4 how we would be implementing this executive order at
- 5 EPA. And among other things, it announced the members
- of the Regulatory Reform Task Force, which is headed
- 7 by Samantha Dravis in our Office of Policy.
- 8 It also describes how the task force is charged with
- 9 evaluating existing regulations and making
- 10 recommendations to Administrator Pruitt.
- 11 The Office of Chemical Safety and Pollution
- 12 Prevention intends to submit a draft report of our
- findings to the task force by May 15th in response to
- 14 Administrator Pruitt's memo.
- So, I know for those of you on the PPDC,
- you're seated in a slightly different way than you
- 17 normally would, this is to accommodate a high turnout
- of people that registered to participate. I think we
- 19 have almost 100 people who registered to participate
- in person and a very large number who are joining us
- over the telephone. So, thank you for your patience
- 22 and your flexibility for today.
- For us at EPA, this is a listening session
- 24 to hear your thoughts on which pesticide regulations
- 25 should be repealed, replaced, or modified. We will

- 1 not be reacting to any of the comments that are made,
- 2 but we are here to listen.
- 3 There will be a transcript generated from
- 4 today's meeting, and we will post a copy of that
- 5 transcript in the docket for the PPDC, as well as on
- 6 the PPDC web site. That will probably take us a
- 7 couple of weeks, but it will be there.
- While we will be taking notes today, we
- 9 strongly encourage anyone making public comments to
- 10 also submit those to the docket that was created for
- 11 this effort. The docket for this effort currently
- 12 closes on May 15th. There is an information sheet.
- 13 If you haven't received it, that gives a little bit
- 14 more quidance on how to submit those comments and what
- 15 the docket number is at regulations.gov.
- 16 So, a couple of logistics for today. We'll
- 17 first be taking comments from members of the Pesticide
- 18 Program Dialogue Committee who are seated up front
- 19 with us. We have about 20 members of the PPDC who
- 20 told us in advance that they intended to provide
- 21 comments. If we still have time remaining before the
- 22 break, we'll open it up to the full PPDC to see if
- there are any other comments that they'd like to make.
- 24 And then, after the break, we'll hear from
- 25 people from the public who have signed up to provide

- 1 comments in person. For those of you in the room,
- 2 we'll ask you to step up to the microphone. For those
- of you on the phone, we will work through the
- 4 logistics, and Claire Gesalman from the
- 5 Office of Pesticide Programs will help moderate that
- 6 part of the proceedings.
- 7 Anyone who is going to provide public
- 8 comment today, we ask that you, when it's your turn to
- 9 speak, to begin by saying your name and your
- 10 organization that you are representing. Because of
- 11 the high number of people that have requested to
- 12 speak, we are limiting people to three minutes so that
- we can accommodate all of the numbers.
- Dea Zimmerman, who's standing up to my left,
- 15 your right for most of you, will give you a one minute
- 16 warning sign. So, we're not going to cut off your mic
- or anything, but in the interest of letting as many
- 18 people speak as possible, try to limit your comments
- 19 to three minutes.
- 20 And then, one last thing, for those of you
- on the phone who don't have the advantage of the one-
- pager that we handed out, if you're interested in
- receiving a copy of that one-pager, you can send an
- e-mail request to a very long e-mail address. It's
- 25 EPA.OPP.regulatoryreform -- that's all one

- word -- @EPA.gov, EPA.OPP.regulatoryreform@EPA.gov.
- So, we're going to turn now to our PPDC
- 3 members who requested to speak. Actually, the first
- 4 PPDC member that requested to speak is Amy Liebman
- 5 from the Migrant Clinicians Network. So, Claire, if
- 6 you can help us open up Amy's line.
- 7 MS. ZIMMERMAN: Yes, well, she just
- 8 needs -- Amy, if you're on the phone, if you hit pound
- 9 6, please.
- 10 MS. LIEBMAN: I just did. Can you hear me?
- 11 MS. ZIMMERMAN: Yes.
- 12 MS. LIEBMAN: Wonderful. You ready for me
- 13 to go?
- MR. KIEGWIN: Okay, you're on the clock.
- 15 MS. LIEBMAN: Good morning. This is Amy
- 16 Liebman. I'm from the Migrant Clinicians Network. I
- just wanted to say that I think the EPA has just an
- incredible responsibility to protect human health and
- 19 the environment. As such, there are numerous
- 20 regulations that are critical to the EPA's mission.
- 21 So, today, as part of the effort to examine
- 22 regulations, I want to talk about some important
- pesticide regulations. I'm going to address the
- 24 importance of the Worker Protection Standard as well

- 1 as the Certified Pesticide Applicator Rule.
- 2 First, on both rules, I commend the Agency
- 3 for their long and extensive effort to engage
- 4 stakeholders as they developed the proposed rule. In
- 5 2001, I attended my first stakeholder meeting in
- 6 Orlando, Florida. This is one of many, many meetings
- 7 that the EPA facilitated across the country to obtain
- 8 diverse stakeholder perspectives. These perspectives
- 9 were from industry, from farmworker groups, to
- 10 clinicians. Their work continued throughout various
- 11 administrations.
- In 2006, I participated in the worker
- protection subgroup of the PPDC. Again, this involved
- 14 diverse stakeholders. While we often criticize the
- 15 EPA for how much time it took to revise the rules, the
- 16 result is that we have rules with input from
- 17 stakeholders across the spectrum, and it offers
- stronger protections to the workers that put the food
- 19 on our tables.
- It's not a perfect rule, and there are many
- 21 protections such as cholinesterase monitoring
- 22 that the EPA failed to include, but it is important
- and a moderate step forward. It is based on science
- 24 and evidence-based best practices. There is finally a
- 25 much needed minimum age requirement. This is critical

- for protecting working children. There are more
- 2 robust training requirements and notification
- 3 processes. And, more importantly, it eases worker and
- 4 clinician access to critical life-saving information
- 5 about the pesticides used where farmworkers toil to
- 6 plant and harvest our food. The certification rule
- 7 also offers important clarifications and stronger
- 8 protections for worker groups that are likely to be
- 9 the most overexposed to pesticides.
- I expect that all stakeholders in this room
- 11 understand the importance of these rules and that
- 12 everyone will rally around their implementation. To
- weaken or reject these rules is simply unconscionable,
- and this will result in a failure of a profound
- 15 government responsibility to protect workers.
- 16 I will remind everyone that these are the
- only regulations, the only ones, that protect the most
- 18 overexposed worker population of pesticides. And it's
- in everyone's best interest that these pesticides are
- 20 applied safely as possible, and that workers are
- 21 protected. And it is in everyone's best interest that
- we move forward with the rules as they stand. Thank
- you so much for listening to my comments.
- MR. KEIGWIN: Thanks, Amy.
- The next person from the PPDC will be Lori

- 1 Ann Burd with the Center for Biological Diversity.
- 2 MS. BURD: We're here to discuss pesticide
- 3 regulatory burdens on industry. I want to start by
- 4 talking about other burdens, those borne by real
- 5 people, not corporations, those who are exposed to
- 6 pesticides, for starters, people of color. More than
- 7 90 percent of children living in areas of heavy
- 8 pesticide use in California are children of color.
- 9 What about their burdens?
- 10 Let's talk about the burdens borne by those
- 11 exposed to chlorpyrifos and why Scott Pruitt has
- 12 refused to ban it, despite abundant science linking it
- 13 to lower IQs, attention deficit disorders, brain
- 14 damage, and developmental delays. Over five million
- pounds of it are still used each year.
- 16 How can we ignore the burden of people who
- 17 suffer acute poisoning by dangerous organophosphates
- 18 like chlorpyrifos? They suffer nausea, confusion,
- 19 convulsions, and sometimes death by suffocation. And
- what about subacute effects? I'd love to know.
- 21 When will we sit here and spend the morning
- 22 listening to the stories of parents like Magda and
- 23 Amilcar Galindo who are raising a child
- developmentally disabled, likely as a result of
- exposure to chlorpyrifos.

1	When Ms. Galindo was pregnant, she was
2	living in Salida, California, down the street from
3	fields where chlorpyrifos was sprayed during her
4	second trimester. As most of us in this room know,
5	women who live within a mile of fields where
6	chlorpyrifos is sprayed during their second trimester
7	triple their chance of having an autistic child.
8	Her beautiful, tall, lanky 12-year-old Eva
9	is autistic and has ADHD. Because of Eva's
10	differences, her classmates are sometimes unkind to
11	her. Her parents worry about bullying. She has a
12	hard time with reading and requires help in social
13	situations.
14	How can we sit here and talk about ways to
15	make life easier for industry and ignore the burden of
16	the Galindos and countless other families in
17	California's central valley who suffer the effects of
18	exposure to pesticides?
19	When will we bring in the parents, children,
20	and spouses of those who have lost their battles with
21	non-Hodgkins lymphoma, a cancer that the World Health
22	Organization has linked to glyphosate use? When will
23	these people be asked to share their ideas for
24	regulations to reduce their burden?

25 Perhaps they would identify regulations and

- 1 ensure that never again will the chair of a cancer
- 2 assessment review from this office promise to, and
- 3 apparently achieve success, in killing another
- 4 agency's review of a pesticide safety. That's exactly
- 5 what Jess Rowland told Monsanto he would do
- 6 when the Department of Health and Human Services
- 7 indicated interest in reviewing glyphosate.
- And then, there's the burden of those who
- 9 can't speak. Litigation has finally forced this
- 10 agency to stop ignoring its legal responsibility to
- 11 protect our nation's most imperiled plants and animals
- 12 and complete its first ever biological evaluation of
- just a few pesticides, including chlorpyrifos.
- 14 This analysis, on just three of the
- 15 thousands of pesticides registered by this office, has
- revealed that they're likely to adversely affect
- 17 almost all endangered species in this country. Now,
- 18 this office is considering requests from Dow and Crop
- 19 Life asking it to simply pull the analysis because
- 20 they don't like it and refusing to come up with a
- 21 schedule for completing consultations for any
- 22 pesticides that it doesn't have court enforced
- 23 deadlines for.
- When we will spend a day together in this
- 25 room talking about the species who these actions may

- 1 well drive to extinction? Who here is ready to
- declare that they're okay with letting the whooping
- 3 crane or Karner blue butterfly or any other species
- 4 go extinct? So, yes, please, let's talk about burdens
- 5 and regulatory reform.
- I can talk to you all day about how Section
- 7 18 provides a back door for registration of dangerous
- 8 pesticides. But really, we need to talk about the
- 9 changes that must be made. I can tell you, I lose
- zero sleep over the burdens of the pesticide industry,
- 11 but I lose lots of sleep over wildlife disappearing
- 12 forever because of pesticides that also cause families
- 13 like the Galindos to suffer in unimaginable ways.
- 14 These are real burdens, matters of life and death.
- 15 When we will take the time to discuss how regulatory
- reform can help ease these burdens?
- 17 MR. KEIGWIN: Our next speaker will be
- 18 Cheryl Cleveland with BASF.
- 19 MS.ZIMMERMAN: Or we'll go with Mark.
- 20 She's not quite ready yet.
- 21 MR. KEIGWIN: Okay, Marc Lame with Indiana
- 22 University.
- MR. LAME: Good morning, and may the fourth
- 24 be with you. My name is Dr. Marc Lame. I'm an
- 25 entomologist and professor at the School of Public

- 1 Environmental Affairs, SPEA, at Indiana University
- where I teach graduate environmental management and
- 3 policy. SPEA's graduate environmental program is
- 4 ranked number one in the United States. I have been a
- 5 FACA appointed member for six years.
- 6 Tens of thousands of American lives every
- 7 year are lost early and unnecessarily to environmental
- 8 health hazards. As well, the doctors of our children,
- 9 the American Academy of Pediatrics, recognize that
- 10 legally used pesticides are detrimental to children's
- 11 health. Unfortunately, many public servants,
- 12 environmental regulators, are not being allowed or
- supported to achieve their mission of protecting human
- 14 health and the environment.
- 15 I believe all Americans can agree that we
- want assurance that the water we drink, the air we
- breath, the objects we come in contact with, food,
- 18 soil, toys, are safe. However, that assurance can
- only be given if those assuring the environmental
- 20 protection can answer who their clients are. Are they
- 21 the pesticide companies and users, a mandate to
- regulate, or the public, you, me, and our children?
- This lack of mission oriented management is
- 24 not only a result of strategic ineptitude but of
- 25 malice. Administrations opposed to environmental

- 1 regulations appoint like-minded environmental
- 2 administrators who not only ignore their mission and
- 3 legal obligation to pursue it, but openly display a
- 4 distaste in the disrespect to managers and scientists
- 5 who are attempting to protect human health and the
- 6 environment.
- 7 So, reforms that are not needed. To believe
- 8 the pesticide regulation should be further relegated
- 9 to the states is folly. In the past decade, there has
- 10 been an increasing degradation of environmental and
- 11 health protection orchestrated by many state appointed
- 12 officials. Many of our state environmental agencies
- 13 have been drastically downsized, and regulators have
- 14 been relegated to act as clerks in state-run permit
- shops.
- 16 To further focus regulatory performance in
- 17 how many registrations to pesticide manufacturers are
- issued, as opposed to monitoring for compliance and
- 19 enforcement, will result in poor water quality,
- increased rates of childhood asthma and cancer, as
- 21 well as further endangerment of threatened species.
- Increasing jobs by decreasing environmental
- 23 protection with reduced regulation does not work and
- 24 is illogical. In fact, most economists recognize that
- 25 well-crafted and implemented environmental regulations

- force countries, as well as industries, to innovate,
- 2 yielding a dual benefit of increased efficiency and
- 3 increased competitiveness in the market.
- 4 Reforms that are required. First, help
- 5 citizens understand that downsizing of both EPA and
- 6 state environmental agencies that paralyze regulatory
- 7 function is a bureaucratic disease. It is not only
- 8 dangerous in the short run but will take decades to
- 9 recover from. Citizens must recognize that rigorously
- 10 trained environmental management professionals will
- 11 either leave public service or decide not to serve for
- the protection of future generations.
- 13 Second, the Agency's inspector general
- 14 should provide increased oversight to EPA regional
- offices, assuring that states do not sacrifice
- 16 environmental health and that the public is the most
- important client of government services.
- 18 Third, research shows that regulation of
- 19 pesticide users is more cost effective when combined
- with technical assistance. Thus, any regulatory
- 21 reform should include serious robust and significantly
- funded technical assistance programs such as
- integrated pest management.
- 24 Fourth, that additional reforms include
- 25 increased oversight and state pesticide regulatory

- 1 agencies and their associations regarding their
- 2 relations with those they regulate. Clearly,
- 3 associations of regulators should not allow the
- 4 appearance of collusion or co-optation to undermine
- 5 public health and trust.
- And finally, fifth, there would be increased
- 7 oversight by the Agency's inspector general to ensure
- 8 regulated entities cannot directly or indirectly craft
- 9 regulations. As the Agency's current administrator
- 10 has a history of submitting verbatim comments on
- 11 behalf of regulated industries, his office should
- 12 receive special attention to avoid conflicts of
- interest, including co-optation, collusion, or
- 14 corruption. Thank you.
- 15 MR. KEIGWIN: Liza Fleeson-Trossbach from
- 16 Virginia Department of Agriculture.
- 17 MS. TROSSBACH: Good morning. I'm Liza
- 18 Fleeson-Trossbach with the Virginia Department of
- 19 Agriculture and Consumer Services. I serve as a PPDC
- 20 representative for the Association of American
- 21 Pesticide Control Officials, or AAPCO, and I'm making
- 22 comments today on their behalf.
- 23 AAPCO is a national professional association
- 24 representing pesticide regulatory officials from the
- 25 50 states, tribes, and territories with responsibility

- 1 for the effective implementation and enforcement of
- 2 FIFRA and, as such, are co-regulators with EPA. One
- of our key objectives is to engage with the Agency
- 4 to ensure workable, effective, and efficient
- 5 regulation of pesticides of both the state and federal
- 6 level.
- 7 While supporting the goal of the recent
- 8 revisions to the Worker Protection Standard and the
- 9 pesticide applicator certification rule, we do have
- 10 concerns for states, specifically implementation time
- 11 lines, resource demands, and the development of
- 12 compliance materials.
- 13 AAPCO acknowledges and appreciates the
- 14 Agency's consideration of the many concerns expressed
- by states. However, they believe further
- 16 modifications would be beneficial to states and the
- 17 regulated industry while still being protective of
- 18 human health and the environment.
- 19 AAPCO supports the delayed implementation of
- 20 WPS to allow time for meaningful outreach and
- 21 education, as well as the delayed implementation of
- 22 the certification rule to allow specific issues to be
- 23 addressed.
- 24 AAPCO firmly believes the NPDES pesticide
- 25 general permit requirements are duplicative of federal

- pesticide registration requirements without providing
- 2 additional tangible water quality protections and
- 3 should be repealed.
- 4 In 1996, the Agency exempted minimum risk
- 5 pesticides from product registration in order to
- 6 reduce cost and regulatory burdens. This exemption
- 7 shifted costs and the regulatory burdens to state lead
- 8 agencies, many of which require state registration of
- 9 products.
- 10 States are finding more products in the
- 11 marketplace which do not meet the federal requirements
- 12 for the exemption from registration. But, due to low
- priority assigned by the Agency for violations of
- 14 appropriate and timely action by the Agency, it's not
- pursued. The exemption should either be repealed or
- 16 the Agency should place a higher priority on products
- 17 which do not meet the requirements for this exemption.
- 18 With the proposed reductions to EPA budget,
- 19 AAPCO would be amiss if it did not offer that any
- 20 reductions to the state tribal assistance grants will
- 21 make it difficult, if not impossible, for states to
- 22 continue enforcement of FIFRA. States have
- 23 historically had to work with increasing mandates
- 24 under reduced STAG funding available for pesticide
- 25 programs cooperative agreements. Should there be

- 1 additional reductions to STAG funds, states would be 2 faced with limiting participation or, in some cases, 3 returning regulatory responsibilities to the Agency. AAPCO fully supports EPA in their efforts 4 5 towards the development and utilization of technology 6 in the pesticide registration, state grant reporting, 7 and enforcement tracking processes, and dedicating 8 resources to fund these efforts. The implementation 9 of technology will increase efficiencies, provide for 10 more consistency in data collection, and enhance 11 reporting capabilities and information exchange 12 between states and EPA. 13 Finally, AAPCO would also like to express 14 our support for and the importance of continued 15 funding for the Pesticide Regulatory Education 16 Program, or PREP, the Pesticide Inspector Residential Training program, PIRT, and the State FIFRA Issues 17 18 Research and Evaluation Group. Each of these has 19 contributed to improving regulatory decisions,
- measures for the enforcement program.

 PREP, PIRT, And SFIREG provide an

 opportunity to increase the depth of understanding and

 consistency and implementation of FIFRA for both state

priorities, and program implementation, for example,

the development and implementation of performance

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- and EPA carrying out the pesticide program objectives.
- 2 AAPCO will provide detailed comments to the docket to
- 3 address these and other items and appreciates the
- 4 opportunity to comment today.
- 5 MR. KEIGWIN: Gabrielle Ludwig with the
- 6 Almond Board of California.
- 7 MS. LUDWIG: So, Gabrielle Ludwig with the
- 8 Almond Board of California. The comments I'm making
- 9 are on behalf of the Almond Alliance, an almond
- 10 voluntary grower and handler association. I'm also a
- 11 six-year member of the PPDC.
- 12 From a grower's perspective, one of the
- things we need to note is we need a credible,
- 14 efficient, science-based, and transparent Office of
- 15 Pesticide Programs process to assess the potential
- 16 risks and benefits to society of the use of pesticides
- and to register the uses where appropriate. We do not
- want to see actions that undermine the credibility of
- 19 the OPP.
- 20 A couple of sort of overarching comments on
- issues we see, we do think that we need some review of
- 22 the water modeling, just in the last six months. For
- the Almond Alliance, we have submitted comments on
- 24 around 10 active ingredients. The one issue in
- 25 comments have been concerns about pesticides in water.

2	We want to suggest that a process be
3	developed for collaborative review of the models and
4	assumptions that go into the calculations for the
5	potential for a pesticide to make it into surface
6	water and the possibility into drinking water and/or
7	affect aquatic species.
8	From what we can tell of the grower group,
9	there are several assumptions that could possibly be
10	refined. The main one from our perspective is when it
11	is or is not appropriate to use the spray drift factor
12	from young dormant trees. Another one is timing of
13	applications versus the chances of rainfall. That's
14	certainly relevant to California conditions.
15	There may also be opportunities to see
16	confined ways to develop more regionalized models or
17	new or less deterministic approaches. In the process,
18	maybe sort out a better way to develop monitoring data
19	to help define the models. So, to improve
20	efficiencies, step back to publicly review and assess
21	what options for refining the water, drift, runoff
22	calculations exist.
23	The next one is complying with Endangered
24	Species Act. It is clear that the intense efforts by

both OPP and the Services to develop processes to

- 1 comply with the Endangered Species Act are simply
- 2 still too cumbersome. We've done it and are taking up
- 3 more resources than the agencies have.
- 4 Let's suggest revisiting the efforts to
- 5 develop counterpart regulations to streamline the
- 6 process. Fundamentally, OPP has the knowledge as to
- 7 how pesticides behave in the environment and to
- 8 conduct pesticide risk assessments, which the Services
- 9 do not, and certainly do not have enough expertise to
- 10 keep up with the constant stream of regulatory
- decisions by OPP.
- 12 Similarly, the Services have the knowledge
- of the species and habitat requirements. It doesn't
- 14 make sense -- so, therefore, you know, we basically
- 15 say let's step back and see how that can be made more
- 16 efficient. For those of you who do care deeply about
- 17 the Endangered Species Act, you realize it's exactly
- 18 these frustrations that call for the complete overhaul
- of ESA. So, I think working together on this one
- 20 would be wise.
- 21 Another area is just continued engagement on
- 22 international -- participating in various
- 23 international activities. This came up yesterday at
- 24 the PPDC meeting, whether you're looking at the
- 25 biopesticides, the use of new testing methods, and so

- forth. I just wanted to say that we really think that
- there's a lot of opportunities for harmonization.
- 3 Both previous administrations and this administration
- 4 say that they want to increase agricultural exports.
- 5 We need help in that arena. But again, it goes beyond
- 6 just the MRL issues. It really gets into the
- 7 methodologies and so forth.
- 8 One thing to realize there's an opportunity
- 9 for some extra training, there's an extraordinary JMPR
- session coming up in the spring of 2019. That might
- 11 be a great opportunity to expose some new people from
- 12 OPP to that process.
- 13 And then the third one is just from the
- Office of Research and Development, just to ensure
- 15 that any efforts by the Office of Research and
- 16 Development are meaningful to the regulatory sister
- 17 offices within EPA. Similarly, any efforts to conduct
- 18 research on pesticides affects the other government
- 19 agencies, such as USDA/ARS, are funded by USDA and NIFA,
- 20 should require engagement with OPP staff prior to
- 21 embarking on the research to ensure that the research
- 22 will be relevant and useful to OPP.
- 23 Research that meets regulatory needs is not
- 24 the same as research for research's sake. The vast
- 25 majority of pesticide related research is not usable

- in the regulatory processes and sometimes can even
- 2 help inform the process, thus requiring US government
- 3 agencies that conduct research related to pesticides
- 4 consult with OPP would help to ensure that more of
- 5 the research would truly help clarify when and when
- 6 not pesticides have unintended consequences.
- 7 MR. FREDERICKS: My name is Jim Fredericks.
- 8 I'm with the National Pest Management Association. I
- 9 thank you for the opportunity to make some comments
- 10 this morning. I have four brief comments.
- 11 First of all, by way of introduction, the
- 12 National Pest Management Association is the only
- national organization representing the structural pest
- 14 management industry. NPMA's members protect public
- 15 health and property in countless homes, businesses,
- and public buildings across the United States.
- 17 First, we encourage the Agency to carefully
- 18 consider the benefits of pest control tools during
- 19 their registration and registration review process,
- 20 including use patterns that are specifically for
- 21 nonagricultural users.
- 22 Regarding protecting endangered species, we
- 23 encourage the EPA and the Services to develop a more
- 24 efficient and less bureaucratic process to make
- 25 decisions regarding endangered species, developing a

- 1 smarter way to allocate resources to protect our
- 2 nation's environment.
- 3 Thirdly, NPMA applauds the Agency on the
- 4 significant improvements made to the final rule for
- 5 certification of pesticide applicators, ensuring
- 6 proper training. The efforts taken by the EPA to
- 7 consider concerns from stakeholders in crafting the
- 8 final rule was a model for how the process should
- 9 work.
- 10 And finally, NPMA encourages EPA to engage
- 11 user groups and stakeholders to help make pesticide
- 12 labels easier to use and understand, streamlining the
- 13 cumbersome label language that users must read, use,
- follow, and understand to ensure safe and effective
- 15 use.
- NPMA will be submitting full written
- 17 comments to flesh out some of these points. Thanks.
- 18 MR. KEIGWIN: Cheryl Cleveland with BASF.
- 19 MS. CLEVELAND: Thank you. So, I am also an
- 20 exiting six-year tenured member of the PPDC. I've
- 21 really been honored to be part of this process. It's
- given me great insight as to all the issues and
- complexity that you as servants for our government
- 24 face.
- I want to focus on the fact that the

- 1 executive order that we're responding to also includes
- 2 modifications. I can't speak to the specifics of the
- 3 rules and regulations that you need, but I would like
- 4 to speak to the priorities that you will need to think
- 5 about as you review your own internal system.
- 6 It's my understanding that the Office of
- 7 Pesticide Programs exists because pesticides are
- 8 proven useful tools to protect crops, increase yield,
- 9 and thereby significantly contribute to a global food
- 10 supply that is low cost and abundant. But there is
- also a need for rigorous data review and processes in
- 12 place that balance food security along with food
- 13 safety.
- So, I would suggest that from my
- 15 perspective, there are three areas that have some
- 16 barriers to best achieving some of that. I've watched
- 17 over the six years here in discussions. There's
- 18 something in the way of data management. As much as
- 19 you try to be transparent, there's rules and
- regulations, and there's IT contracts, and there's
- 21 stuff that isn't helpful.
- 22 And even though the things that we discussed
- yesterday in trying to get through a new data
- reporting process, there was a focus on data elements,
- and there wasn't the ability to talk across the whole

- 1 process. Similarly, the SmartLabel idea is a great
- 2 idea at a high level, but there's something getting in
- 3 the way of its best implementation. So, I don't know
- 4 what the government needs to do to remove that, but
- 5 that's something that needs to be streamlined and
- 6 thought about.
- 7 The second thing that I would ask you to
- 8 focus on is the use of real world monitoring
- 9 information to help incorporate for refined risk
- 10 assessment. We see that need in the ESA model that
- 11 let's through 97 percent of things. We see that need
- in the water modeling that continues to focus on
- 13 models instead of real world data. I think that's a
- 14 real need to continue to vet precise models against
- 15 real world information.
- 16 The third thing, and I want to combine this
- 17 with also the executive order where there was the
- 18 promoting agricultural and rural prosperity in
- 19 America. One of the points there was to encourage the
- 20 production in exports and the use of domestically
- 21 produced agricultural products.
- 22 There's a desperate need for international
- engagement, because you can't export products --
- qrowers can't use them in the US no matter how
- 25 rigorous and wonderful we set up our tolerances and

- 1 MRLs -- if you have other countries that won't
- 2 establish the same MRLs for export.
- 3 And the EU is tremendously engaged at the
- 4 international level and they're promulgating their
- 5 hazard cutoffs. We have other countries that only
- 6 have the ability to use screening models. Without
- 7 understanding the data rich information on the
- 8 consumption side as well as the models, there's a hole
- 9 left. That would be very useful for the US
- 10 participation as well.
- 11 MR. KEIGWIN: Thank you.
- 12 Our next speaker will be Komal Jain from the
- 13 American Chemistry Council.
- 14 MS. JAIN: Good morning. My name is Komal
- Jain. I'm the Executive Director of the Biocides
- 16 Panel of the American Chemistry Council. Thank you
- for the opportunity to provide oral comments on
- 18 regulatory reform as it relates to the pesticides
- 19 program.
- Let me note up front that I do not represent
- 21 the agriculture community. I represent the
- 22 antimicrobial or biocides industry, and our
- applications consist of material preservation, water
- treatment, antifouling, and controlling of pathogens
- and processing through facilities and hospitals.

- 1 The Biocides Panel will be submitting 2 detailed written comments. So, given my time 3 allotment, I am going to highlight only two areas of likely several areas where reform and clarity could 5 improve outcomes for both the Agency and the 6 registrants. 7 We greatly support and appreciate the work 8 of OPP and AD. We recognize their time and resources 9 are not infinite, and, thus, we are looking for ways 10 there can be greater efficiencies. As an example, 11 there are opportunities for EPA and FDA to reduce 12 their duplication of work. When EPA and FDA have 13 standards that are similarly close or sufficiently close, FDA and EPA could cut down on bureaucracy and 14 15 needless duplications by recognizing each other's
- 17 For example, certain food additives are 18 regulated by FDA and EPA. And even though substances 19 are approved by FDA by a food contact notification, EPA may also conduct a risk assessment of those 20 21 substances already approved by FDA. Rather than 22 having agencies review the same substances, EPA could avoid duplication of work and the potential for 23 24 conflicting risk assessments by accepting the review

of FDA. Statutory obligations and implementing

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reviews.

- 1 regulatory rules need to be assessed to see what can
- 3 could possibly be employed.
- 4 The second theme I want to point out is
- 5 implementation of procedures, and particularly
- 6 notification procedures, so that they are fully
- 7 recognized by EPA. Under the regulations, any
- 8 modifications to the composition, labeling, or
- 9 packaging of a registered product can only be
- 10 submitted through the amended registration process.
- 11 That also includes the PRIA fee.
- 12 However, there is another section of the
- 13 regulations that allows minor changes to be made
- 14 through notification or non-notification. The stated
- intent is to streamline and accelerate many minor
- 16 changes that could be determined to have no potential
- 17 to cause unreasonable adverse effects. To implement
- 18 that regulation, EPA issued PR notices, the most
- 19 current being PR 98-10. It contains specific time
- 20 lines for informing registrants if the notification
- 21 has been rejected.
- 22 For antimicrobial registration, the
- 23 requirement is that the Agency respond within 30 days,
- 24 along with the reasons. However, registrants are not
- 25 receiving those decisions within 30 days, particularly

- disapprovals. It's more in the 90-day time frame.
- 2 And even when submissions fully comply with
- 3 the requirements of 98-10, the Agency has rejected the
- 4 notification and required submission for amended
- 5 registration. That's dismissing the value of the
- 6 notification process and their own regulations. This
- 7 puts an unnecessary regulatory burden on both
- 8 registrants and the Agency. The notification
- 9 requirement should be revisited under both regulation
- and PR notices, or PR 98-10, and clarity should be
- 11 provided through regulations or implementing
- 12 quidelines.
- 13 Again, these are only two areas of several
- 14 that the Biocide Panel plans on discussing or
- 15 commenting on. And again, I thank you for your
- 16 attention.
- 17 MR. KEIGWIN: Our next speaker will be Pat
- 18 Bishop with People for the Ethical Treatment of
- 19 Animals.
- MS. BISHOP: Hi, I'm Pat Bishop. I'm with
- 21 PETA and representing the animal welfare community
- 22 which advocates for the replacement and reduction of
- animals used in regulatory testing and use of more
- human relevant approaches.
- 25 So, one of the areas we'd like EPA to look

- 1 at as part of this regulatory reform is to conduct
- 2 some systematic reviews of toxicology tests required
- 3 under Part 158 of Data Requirements for Pesticide
- 4 Registration. These tests use thousands of animals to
- 5 test a single pesticide active ingredient. The test
- 6 requirements for both human health effects and
- 7 ecotoxicity have been in place for decades but have
- 8 rarely been reviewed with respect to the information
- 9 they supply for risk assessment and setting exposure
- 10 limits.
- 11 Efforts should be initiated to
- 12 retrospectively examine how the data have been
- 13 historically used and which tests might be identified
- 14 that provide little or no value in setting pesticide
- 15 exposure when it's in risk assessment.
- 16 In a few cases where this has already been
- done, EPA was able to eliminate test requirements or
- 18 provide quidance for waivers. A prime example is a
- one-year chronic test in dogs which had been required
- for years along with the 90-day subchronic dog test.
- 21 A thorough retrospective review clearly showed that
- 22 the chronic test offered little additional value when
- the 90-day was available.
- 24 Accordingly, EPA eliminated the requirements
- of the chronic dog test in 2007. With respect to the

- 1 90-day, there are some researchers now that are saying
- 2 that the regulatory needs for this study may not be
- 3 needed any longer, as other techniques may be applied
- 4 to the 90-day study in rats.
- 5 Yesterday, we discussed the acute thermal
- 6 toxicity data and the waiver that has been issued.
- 7 Again, we encourage EPA to look at some of the work
- 8 that Health Canada has done and see if that waiver
- 9 could also be applied to the active ingredients.
- 10 Another area which we also discussed
- 11 yesterday was again GHS, looking at that and hopefully
- 12 transitioning to that to avoid having two systems in
- 13 use for industry.
- 14 And finally, we would also encourage EPA to
- again look at Part 158 and perhaps add a statement
- 16 that would require that non-animal methods of toxicity
- testing be used if they are available and accepted by
- 18 OPP. Thank you.
- MR. KEIGWIN: Thanks, Pat.
- 20 Our next speaker is Virginia Ruiz with
- 21 Farmworker Justice.
- MS. RUIZ: Good morning. My name is
- 23 Virginia Ruiz. I'm the Director of Occupational and
- 24 Environmental Health at Farmworker Justice.
- 25 Farmworker Justice is a national organization that

- 1 strives to improve the living and working conditions
- 2 of farmworkers in the United States. I have been a
- 3 PPDC member for six years, and I'd like to thank EPA
- 4 for the opportunity to participate in these dialogues
- 5 and to speak this morning.
- I just wanted to say that I reject the
- 7 premise that rules and regulations that protect human
- 8 health and the environment are a burden to any
- 9 individual or industry. Without common sense federal
- 10 rules, like the recently revised Worker Protection
- 11 Standard and Certification of Pesticide Applicator
- 12 rules, the burdens of illness and injury from
- pesticide poisonings, medical care, missed work days,
- 14 and environmental contamination would fall on those
- 15 who can least afford it, pesticide handlers, workers,
- 16 and agricultural fields, orchards, greenhouses, and
- 17 their children.
- These regulations call for basic preventive
- 19 measures that will save millions of dollars in medical
- 20 costs and lost productivity due to illness. Employers
- 21 who strive to promote a culture of safety in the work
- 22 places already implement these common sense measures,
- and some even go beyond measures, like annual basic
- 24 safety training, posting of information, meaningful
- 25 hazard communication, functioning personal protective

- 1 equipment, adequate supervision, and prohibiting
- 2 children from handling pesticides.
- 3 EPA developed these regulations after
- 4 decades of complication with all stakeholders,
- 5 including laborers, employers, state agencies, public
- 6 health professionals, and educators. Many states are
- 7 already successfully implementing revisions to the
- 8 Worker Protection Standard.
- 9 Efforts to delay, modify, or rescind the WPS
- 10 and Certified Pesticide Applicator rule are an affront
- 11 to those who served in some previous administrations
- 12 at EPA who actually did listen to all stakeholders and
- an insult to those who have worked for years to move
- forward on occupational safety and agriculture and to
- 15 the men, women, and children who benefit from safe
- 16 working conditions and a clean environment. Thank
- 17 you.
- MR. KEIGWIN: Our next speaker will be
- 19 Cynthia Palmer with the American Bird Conservancy.
- 20 MS. PALMER: Thank you. I'm Cynthia Palmer.
- 21 I'm Director of Pesticides Science and Regulations for
- the American Bird Conservancy.
- I just returned from the gymnastics national
- 24 championship in Michigan watching my child compete her
- 25 double flips and other tricks. If these flips go just

- 1 millimeters off track, these young athletes risk
- 2 concussions. So, there are crash pads everywhere.
- 3 The American bald eagle and other raptors,
- 4 we see this same combination of power, grace, and
- 5 honorability. The eagles can fly 10,000 feet in the
- 6 air and can dive a 100 miles per hour. Yet, one meal
- 7 of a brodifacoum-laced rat is enough to
- 8 cause death from internal bleeding.
- 9 Our nation does great things, but we need
- 10 our crash pads, our safeguards for the times when
- 11 things go slightly off track, our protection from the
- 12 pesticides that throw off the arctic tern's navigational
- 13 systems on their 44,000 mile annual trek, and that
- 14 cause our children's IQs to plunge.
- 15 EPA scientists work tirelessly to study the
- 16 impacts of pesticides and to develop the regulations
- 17 needed to keep us safe. A single regulation can take
- 18 years of tedious hard work by EPA scientists and by
- 19 stakeholders. To dismantle these safeguards make
- sense only if EPA no longer cares about health and
- 21 safety.
- 22 EPA desires more litigation, as evidenced in
- 23 ignoring the science on chlorpyrifos, or EPA prefers
- to squander the nation's resources by relegating to 50
- 25 state governments the work that can and should be done

- 1 cost effectively by pesticide experts here at EPA.
- 2 The wealthy may be able to buy themselves out of some
- 3 dangers with bottled water, organic food, and
- 4 carefully chosen neighborhoods, but regular people can
- 5 seldom afford to do so.
- 6 Looking at the official list of questions, I
- 7 can only conclude they're the wrong ones to be asking.
- 8 That said, as the Agency moves to electronic reporting
- 9 for FIFRA 6(a)2, which, of course, makes sense for the
- 10 sake of trees and efficiency, please also fix the
- 11 glaring deficiencies outlined in our rule making
- 12 petition, in particular, the unrealistically high
- 13 numbers of dead animals needed to trigger incident
- 14 reporting requirements.
- Under the current regs, pesticide
- 16 registrants are not required to report wildlife kills
- 17 unless they involve 1,000 of a schooling species of
- 18 fish, 50 herding mammals, 5 raptors, or 200 of a
- 19 so-called flocking species of birds, and also
- 20 problematically fix the lack of public access to
- 21 incident reporting data without time and resource
- 22 intensive FOIA requests. Deaths of frogs or owls
- should not be treated as state secrets. Thank you.
- MR. KEIGWIN: Our next speaker is Nina
- 25 Wilson on behalf of the Biopesticide Industry

- 1 Alliance.
- MS. WILSON: Thank you. Thank you for the
- 3 opportunity to comment. I'm not coordinated enough to
- 4 stand and read my notes at the same time, so I'll sit.
- 5 BPIA is the Biological Products Industry
- 6 Alliance, and we are a national trade organization of
- 7 producers of biopesticides and biostimulants. These
- 8 are low risk tools that are designed for use in both
- 9 the organic and also the conventional ag and non-ag
- 10 markets. Our members rely on a predictable science-
- 11 based risk assessment process where the requirements
- 12 are commensurate with these low risk products.
- As an example, for EPA knows this well, if I
- 14 call acetic acid a pesticide, it is subject to all the
- 15 requirements of FIFRA, just like any other pesticide
- 16 would be. However, when I go home, I call acetic acid
- 17 vinegar, and I use it liberally over my salads.
- 18 We appreciate having continued dialogue with
- 19 EPA on the existing emerging issues in this very
- 20 rapidly growing market. Generally, we don't believe
- 21 added regulations is needed, but clarification around
- the working definition of a biostimulant is something
- 23 that we are looking forward to. We're looking forward
- 24 to the comment period and the publication of that
- 25 document.

- 1 EPA's current risk assessment, and in 2 particularly BPPD, these are a stand-alone group of
- 4 Pollution Prevention Division, their global model for

people who register products, the Biopesticide and

- 5 low risk regulation. We do want to make sure that
- 6 increased and unnecessary interpretation of the
- 7 existing regulations do not stifle innovation and is an
- 8 option of these lower risk products. We do support
- 9 EPA, specifically BPPD, in having resources to help
- 10 bring our lower risk products to market.
- 11 MR. KEIGWIN: Our next speaker is Dan Kunkel
- 12 with IR-4.

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- MR. KUNKEL: Thank you. I'm with the IR-4
- 14 program. We are a publicly sponsored program. Our
- 15 headquarters is at Rutgers University. We're
- 16 sponsored primarily by the USDA to generate data and
- make regulatory submissions to EPA. We make
- 18 submissions to the Registration Division, PRD, and
- 19 also Biopesticide Pollution Prevention Division as
- 20 well.
- 21 We make these submissions in support of pest
- 22 control products for specialty crop growers, and we've
- 23 had a longstanding partnership with the Agency in
- 24 continuing to effectively address grower pest control
- 25 needs, especially crop grower needs.

1	While it may be difficult at times for IR-4
2	to adopt new submission requirements that are often
3	added in response to new regulations, such as the
4	preliminary risk assessments with FQPA, then exemption
5	justifications for PRIA, we have been able to adapt
6	with the support from registrants in EPA. We feel
7	that the new electronic submission portal has been a
8	significant improvement. In our view and in our work,
9	we feel that the Agency has essentially made a
10	complete transition to electronic reporting.
11	There can be some regulatory review
12	redundancies when adding specialty crops to already
13	registered products, especially when new
14	considerations come into play that can delay
15	registration of minor uses. These are uses that are
16	grown on limited acreage. So, we continue
17	consideration reevaluation of the various tools used
18	for risk assessment. It may help to streamline the
19	process when adding some of these minor uses and make
20	the process less burdensome for EPA and the data
21	generators that provide these products to growers.
22	Finally, IR-4 and the specialty crop growers
23	appreciate the hard work and dedication of OPP staff
24	that continues to provide growers with access to the
25	latest technology that's so important to pest control,

- 1 especially considering invasive pests, pesticide
- 2 resistance, and often these new products are very
- 3 important and fit well into IPM programs.
- In 2016, EPA established more than 150
- 5 tolerance submissions based on IR-4 data and also
- 6 registered 4 new biological products, biopesticide
- 7 products, that the specialty crop growers can now use.
- 8 So, thank you.
- 9 MR. KEIGWIN: Our next speaker is Nichelle
- 10 Harriott from Beyond Pesticides.
- 11 MS. HARRIOTT: Hello, good morning. My name
- 12 is Nichelle Harriott. I represent Beyond Pesticides.
- 13 Thank you for the opportunity to comment.
- 14 Under FIFRA, EPA has the responsibility to
- ensure that pesticide substances do not pose
- 16 unreasonable risk to human health or the environment.
- 17 The regulations and safeguards set up by FIFRA are
- 18 necessary to ensure the safety of people and the
- 19 environment from hazardous pesticides.
- 20 Recent efforts by EPA to address children's
- 21 exposure to the neuro-oxic pesticide chlorpyrifos and
- 22 the subsequent failure of the Agency to move forward
- 23 with its proposed restriction of the chemical
- 24 demonstrates that the safeguards defined under FIFRA
- are often ignored. This puts children and vulnerable

- 1 farmworker communities at risk and must not be allowed
- 2 to continue.
- 3 The Agency is asking for which regulatory
- 4 provisions should be repealed, replaced, or modified.
- 5 We insist that current regulations under the Office of
- 6 Pesticide Programs are necessary for protecting human
- 7 and environmental health and must be improved.
- 8 The pesticide registration program is
- 9 intended to ensure that pesticides meet safety
- standards before they are used or sold. To improve
- 11 this program, EPA should not allow pesticide
- 12 registration and use without a full understanding of
- 13 all the potential risks to the public and to non-
- 14 target organisms.
- Data gaps continue to plaque the Agency, and
- 16 EPA must refuse registration requests if all the
- 17 required information to conduct a comprehensive safety
- 18 review is not provided. Data gaps still exist for
- 19 chemicals that have been on the market for years but
- 20 (inaudible) through their registration review cycle,
- 21 and outstanding studies are still awaiting submission.
- This means that the conditional registration
- protection under FIFRA Section (3)(e)(7) should be
- 24 disallowed.
- 25 Incident reporting is a useful tool that

- 1 helps the Agency run concise risk management
- 2 conclusions with real world events. Currently,
- 3 Section 6(a)(2) of FIFRA allows manufacturers to submit
- 4 incident reports to EPA as a mechanism for which these
- 5 incident reports can be made is inadequate. Threshold
- 6 numbers that trigger reporting requirements for non-
- 7 target species are extraordinarily high, arbitrary,
- 8 and not supported by scientific or biological reasons.
- 9 These thresholds should be disallowed.
- 10 EPA is asking us to reduce regulatory
- 11 burdens regarding reporting requirements, including
- 12 reducing the frequency of reporting. However,
- 13 reducing regulatory burdens should not be done at the
- 14 expense of public health or the environment.
- 15 Currently, industry bears the burden of reporting
- 16 incidents under Section 6(a)(2), and that burden should be
- 17 theirs to bear, as it is their registered products that
- are involved in the reported incident.
- 19 Frequency in reporting is the result of
- frequency in harms being inflicted on non-target
- 21 species. These incidents come about as a result of
- 22 poorly regulated products, unclear labels leading to
- 23 misuse and a general lack of understanding of the
- 24 potential hazards of pesticide exposures due to the
- 25 allowance of outstanding data gaps and assumed risks.

1 If EPA wants to reform how they conduct risk 2 assessments and refuse to register products that have 3 the potential to pose harm to non-target species, then there will be no need for burdensome or frequent 5 incident reporting. 6 Lastly, there are many important programs 7 overseen by OPP that we hope would not suffer from 8 unjust regulatory reform as a means for industry 9 to share commitments that adhere to federal laws and 10 safeguard public and environmental health from the 11 pesticides they market. These include EPA's 12 pollinator protection program, the endocrine 13 disruption screening program, worker protection initiatives, and the consultation process for the 14 15 endangered species protection program. 16 We believe these programs are critical to 17 improving our understanding of pesticide hazards and 18 exposures and help the Agency refine its risk 19 assessment methodologies. Although these may be 20 difficult decisions for the Agency, we urge 21 prioritizing protections for human and environmental 22 health as mandated by FIFRA so that the Agency does 23 not lose sight of its mission and purpose. Thank you. 24 MR. KEIGWIN: Our next speaker will be

Sheryl Kunickis with the U.S. Department of Agriculture.

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- 1 MS. KUNICKIS: Thank you very much. My name
- 2 is Sheryl Kunickis. I'm the Director in the USDA
- 3 Office of Pest Management Policy. I just want to
- 4 thank EPA for the opportunity to be a part of this
- 5 meeting today. It's very, very important.
- At the end of the day, pesticide regulation
- 7 is about farmers having the tools they need to achieve
- 8 food security. That is the bottom line. So, I just
- 9 have a few comments. I want to keep within the three
- 10 minutes.
- 11 First of all, USDA supports revisions to the
- 12 worker protection standards, including the designated
- 13 representative provision, the application exclusion
- zone, and the definition of a farm family, which is
- defined a little differently by EPA.
- 16 EPA has a request from our partners at the
- 17 National Association of State Departments of
- 18 Agriculture and from the American Farm Bureau
- 19 Federation, asking for a delay in implementation of
- 20 the Worker Protection Standard final rule. USDA
- 21 supports that delay and welcomes the opportunity to
- 22 work with EPA and other stakeholders to revise that
- 23 rule.
- USDA applauds EPA for reducing the burden
- 25 associated with the certification and training rule

- 1 making effort which aims to increase certification and
- 2 training requirements for certified applicators of
- 3 restricted use pesticides. However, USDA is not
- 4 confident that these new federal regulations will
- 5 result in significant benefits in terms of reducing
- 6 risks to applicators.
- 7 It is clear that through the implementation
- 8 of this rule, it will be costly for states, tribes,
- 9 and other certifying entities, as well as for
- 10 applicators and farm owners. USDA also supports the
- 11 delay requested by NASDA.
- 12 On the Endangered Species Act on pesticides, USDA
- supports EPA stepping back from the current mammoth process
- 14 that's being developed in order to reevaluate and forge a
- 15 more reasonable path forward. USDA genuinely appreciates
- 16 EPA's efforts in the process, but the outcomes of the current
- 17 interim approaches are troubling to the agricultural community.
- 18 USDA has voiced strong opinions regarding
- 19 blanket proposals restricting tank mixes unless
- 20 scientific evidence points otherwise. This will
- 21 result in serious effects for growers and issues for
- growers and has the potential for a domino effect.
- 23 If efficacy is impacted by restrictions,

- we may see more resistance and subsequently lower
- 2 yields and less food. The restrictions will increase
- 3 the number of trips across the fields affecting soil
- 4 compaction, fuel use, safety for workers, and the
- 5 potential for off-target impacts.
- 6 USDA is very concerned that multiple
- 7 alternative active ingredients are being mitigated
- 8 simultaneously with benefits assessments for one AI or
- 9 active ingredient assuming that an alternate active
- ingredient will be available, even though the
- 11 alternative active ingredient is also being mitigated.
- 12 We're unaware of examples of going back to unmitigated
- 13 chemical and thus, we could be left with resistance
- 14 issues and fewer alternatives to combat wheat, insect
- 15 pests, and diseases.
- Then, lastly, numerous stakeholders,
- 17 including some of EPA's scientific advisory panel and
- 18 USDA, requested that EPA seek public comment to
- 19 finalize their 2010 framework for incorporating human
- 20 epidemiologic and incident data in risk assessments
- 21 for pesticides before using it in regulatory work. We
- learned it was posted without comment or notice in
- 23 December of 2016.
- 24 Because epidemiological studies have an
- 25 important role, we would like to understand how this

- 1 framework will be used in regulatory decisions. If
- 2 it's likely to alter EPA's analysis of epidemiological
- 3 studies to change what is required of registrants or
- 4 to be used as a justification for any regulatory
- 5 actions, we request that the framework be subject to
- 6 public review and comments.
- 7 We would also like EPA to reconsider
- 8 subjecting any risk assessments that relied on the
- 9 draft framework to re-review and additional public
- 10 comment. USDA looks forward to continuing to work
- 11 with EPA as we have in the past on all future
- 12 endeavors. Thank you so much.
- MR. KEIGWIN: Our next speaker will be Donnie
- 14 Taylor with the Agricultural Retailers Association.
- 15 MR. TAYLOR: Thank you. I'm going to stay
- 16 seated because if I stand up, the view in this area is
- not very effective, so I'll stay where I am.
- Also, I'd like to thank everybody at EPA. I
- 19 know you're all very hard working people. I know you
- 20 have a cross section of this country that represents
- 21 all the views that are being represented here. We
- 22 appreciate that. We know you're mothers, and fathers,
- and daughters, and sons, so we know you have the same
- 24 concerns we do. So, thank you for your efforts.
- 25 I'm Donnie Taylor. I'm with the Ag Retailers

- 1 Association. I'm representing them today, I'm
- 2 representing my family today, and I'm representing my
- 3 history of being born and raised on a farm today. So,
- 4 that's what I'm representing.
- 5 We'll start off with ARA. We're the
- 6 nation's agricultural retailers and distributors
- 7 association, also referred to as the farmer's supply
- 8 dealers. How many of you remember the Dodge truck
- 9 commercial? Paul Harvey "gotta be a farmer" during
- 10 Super Bowl? Oh, come on. That's who we service. So,
- 11 that's the people that we provide products and
- 12 services to.
- 13 So, these people are located throughout the
- 14 United States, range in size from local family held
- 15 businesses, farmer cooperatives that are local, to
- 16 large companies with multiple outlets. We play an
- 17 important role in providing farmers with essential
- 18 crop input products. Our industry is a cooperating
- 19 partner in the regulated community and fully
- 20 understands the importance of chemical safety as well
- 21 as security.
- 22 So, ARA members engage in communication,
- 23 engage their employees and local first responders and the
- 24 the community to enhance environmental, health,
- 25 safety, and security matters. They are very active

- 1 and love their local communities.
- 2 So, ARA supports EPA. We've tried to work
- 3 jointly with EPA as far as compliance and regulations
- 4 are concerned. We recently worked on a brochure
- 5 together on choosing the right herbicide. So, we're
- 6 all about education and compliance. When regulations
- 7 come in place, we know we ask a lot of stupid
- 8 questions with a lot of stupid detail, but, in
- 9 actuality, we're trying to make sure that we're in
- 10 compliance and we communicate that message of
- 11 compliance to our members.
- 12 So, as far as things to think about, you've
- got a lot on your plate. Your budget constrained as
- 14 well. But we can do a FIFRA, go back to the basics,
- 15 if we can eliminate some duplications that occur out
- here in the marketplace, be sensitive to the cost
- 17 versus benefit ratio, particularly for those small
- 18 business owners that we represent, and we appreciate
- 19 the partnership that we have.
- 20 So, the last question. I like to end with
- 21 questions. How many of you here live on a farm or were
- born and raised on a farm? How many of you plan on
- eating today? I think that's why we created the
- 24 community, to bring those two groups a lot closer
- 25 together. So, my last parting words are, if you have

- 1 an opportunity, hug a farmer today.
- 2 MR. KEIGWIN: Our next speaker is Allen
- 3 McLaurin with the National Cotton Council.
- 4 MR. McLAURIN: Thank you, Rick. My name is
- 5 Allen McLaurin. I represent the National Cotton
- 6 Council who represents the cotton industry throughout
- 7 the United States. But actually, I'm a farmer. I'm
- 8 probably the only farmer in the room, and I'll be
- 9 standing outside after the meeting if you want to come
- 10 hug me. So, I'll be there.
- 11 Anyway, we have a couple of concerns. One that
- 12 Sheryl mentioned is the language in the worker
- protection standards, the designated representative
- language of the role needs to be removed. This opens
- up producers to serious privacy, confidentiality
- information regarding the business and security
- 17 issues.
- 18 Also, under conflicting messages to
- 19 producers, the Agency has lost consistency of messages
- to regulatory process. On one hand, the Agency talks
- 21 about pollinator habitat around fields. But, on the
- 22 other, the Agency tells the producers to keep the
- 23 fields mowed and free of wheat for resistance
- 24 management. So, we're just asking for a little
- 25 consistency in the language.

- 2 Rick, and thank you and EPA staff and the PPDC committee
- 3 for bringing this group together as you have for many
- 4 years and listening to different sides. You all have
- 5 a tough job, and it really makes me proud to be a
- 6 farmer in the southern part of North Carolina every
- 7 time I come up here. You all do a great job. Thanks.
- 8 MR. KEIGWIN: Thanks, Allen.
- 9 Our next speaker is Richard Gragg with
- 10 Florida A&M University.
- 11 MR. GRAGG: Good morning. I'm Richard
- 12 Gragg. I'm a professor of environmental science and
- 13 policy at Florida A&M University School of the
- 14 Environment. My specific discipline is toxicology,
- and I would say I'm speaking from the perspective of
- my 25 years -- I think my retirement form says 25
- point 6. I'm trying to get to 30 -- of teaching
- 18 research and public policy in looking at the impact of
- 19 environmental stressors on human health. As I
- 20 tell my students, who I just turned in their grades
- 21 this semester, that they have to cite their sources.
- 22 So, my first comments are based on an article by Dr.
- 23 Cash and others called "Scale and Cross Scale
- 24 Dynamics: Governance and Information in a Multi-Level
- 25 World."

- 1 I'd like to be able to continue to advocate
- 2 to my students that the EPA meets Dr. Cash's
- 3 statements or research where EPA has been a leader in
- 4 facilitating the task of governance and information
- 5 through overcoming the challenges of ignorance,
- 6 mismatch, and plurality by being a leader in promoting
- 7 institutional interplay, co-management, and serving as
- 8 a bridging organization for all of the stakeholders of
- 9 concern.
- 10 Let's see if I can get to my comments now.
- 11 So, I believe that regulatory reform should enhance
- 12 the protection of human health and the environment
- 13 through the continued application and innovation of
- science and policy, especially for vulnerable
- 15 citizens, including children, people of color in low
- 16 wealth populations, and farmworkers who are
- 17 disproportionately exposed and cumulatively impacted
- 18 by pesticides and other environmental, social, and
- 19 economic stressors. Thank you.
- 20 MR. KEIGWIN: Our next speaker is Sharon
- 21 Selvaggio with the Northwest Center for Alternatives
- 22 to Pesticides.
- Oh, I skipped Steven.
- MR. COY: Did you do that on purpose?
- MR. KEIGWIN: No, sorry, Steven Coy on

- 1 behalf of the American Honey Producers Association.
- 2 MR. COY: Steven Coy. I'm a commercial
- 3 beekeeper. I'm also a farmer, and I'm better looking
- 4 than Allen.
- 5 Someone asked me just yesterday has progress
- 6 been made. My answer is no, not real progress. Yes,
- 7 awareness on both managed bees, as well as all
- 8 pollinators, has increased. Communication between all
- 9 stakeholders now exists. Label language has been modified.
- 10 Pollinator protection plans have been implemented.
- 11 Yet, last year's winter loss of managed bees was
- 12 nearly 30 percent, with an annual loss of 44 percent.
- 13 This clearly indicates the nation's managed bees are
- 14 not healthy, and nothing significant has been done to
- 15 reduce the impacts of pesticides on them.
- 16 The distinction between bees under contract
- 17 and those not under contract is illogical. If bees
- are truly to be protected from pesticide exposure,
- 19 they must be protected from pesticides throughout the
- year, regardless of where they're located. Contract
- or no contract, bees are not expendable.
- The recommendation to eliminate that do not
- apply to blooming crops or weeds language from the
- 24 environmental hazard section of the label is absurd.
- 25 The label is the law, and prohibitory language such as

- 1 this must not be eliminated. Some state lead agencies
- 2 claim this label language is unenforceable. Is it
- 3 really or are they merely unwilling to enforce it?
- 4 Risk assessments should be conducted on
- 5 formulated products, not simply active ingredients.
- 6 In addition, risk assessments of IGRs, fungicides, in
- 7 addition to that, the common tank mixes, including
- 8 adjuvants, needs to be addressed/assessed for their
- 9 ability to negatively impact brood development.
- 10 Every year, unnecessary damage to hives
- 11 occurs due to lack of appropriate warning statements
- 12 on the labels of these products. Rick Keigwin and OPP
- 13 staff have indicated that this should start later this
- 14 year on the common tank mixes, and I hope it does.
- 15 MP3s are good for establishing communication
- 16 between beekeepers and pesticide applicators, but they
- 17 are not the answer to solving the bee pesticide
- issues. Clear, enforceable label language which prohibits
- 19 application of certain bee toxic compounds to blooming
- 20 plants is the basis of effective pollinator
- 21 protection.
- The label language for neonics, which we
- 23 challenged back in 2013, remains a very serious issue.
- 24 The list of exemptions that allow applications to
- 25 proceed from that label language, which are merely

- loopholes that allow bee kills to occur legally. A 48-
- 2 hour notification program should not be reason to
- 3 allow legal applications of toxic products to blooming
- 4 plants. It is impossible to move, cover, or otherwise
- 5 protect all bee colonies within the area of pesticide
- 6 applications to blooming plants.
- 7 The California model allows applications of
- 8 bee toxic products 48 hours after notification as long
- 9 as all label restrictions are followed. The 2013
- 10 label language for neonics releases the applicator
- 11 from liability as long as the notification is made.
- 12 This is totally ridiculous.
- 13 All pesticide application recommendations
- are based on the threat of significant crop loss, so
- any application is allowed. Applications of long
- 16 residual products made after sunset may save a few
- 17 bees, but will likely kill many more bees in the
- 18 ensuing days of the residual activity.
- 19 An EPA representative was publicly asked at
- 20 a recent Crop Life of America conference if EPA
- 21 honestly believes bees will be safer from pesticide
- 22 exposure if this language were eliminated. After
- 23 considerable hemming and hawing, the representative
- 24 finally stated that he hopes so. He hopes so? Given
- 25 all the bee health problems our industry continues to

- 1 face, we need real protection from pesticide exposure
- 2 through better labeling restrictions, not less.
- 3 MR. KEIGWIN: Now Sharon Selvaggio with
- 4 Northwest Center for Alternatives to Pesticides.
- 5 MS. SELVAGGIO: Thank you. Hello, my name
- is Sharon Selvaggio, and I'm honored to speak today on
- 7 behalf of my organization Northwest Center for
- 8 Alternatives to Pesticides located in Eugene, Oregon.
- 9 Founded in 1977, NCAP works to protect
- 10 community and environmental health and inspire the use
- of ecologically sound solutions to reduce the use of
- 12 pesticides. For the record, although the majority of
- 13 my career has been spent in conservation and
- 14 management on federal land, I did manage a farming
- program for three years. We have thousands of farmers
- that we actively work with at NCAP.
- So, the EPA has offered this opportunity to
- the public today to provide input on regulatory
- 19 reform. At this time, we recommend that no
- 20 regulations be repealed, particularly as they relate
- 21 to safety of pesticides in regards to human health and
- the environment.
- We have four main comments related to the
- 24 need to maintain such existing regulations. Pesticides
- 25 are hazardous materials designed for the purpose of

- 1 killing or suppressing pests. The World Health
- 2 Organization tells us that pesticides have caused
- 3 millions of cases of human poisoning.
- 4 Additionally, many pesticides have been long
- 5 acknowledged to be carcinogenic. The scientific
- 6 evidence links others to neurodevelopmental and other
- 7 serious conditions. EPA's regulations, starting from
- 8 registration and extending through residue limits are
- 9 designed to limit these risks.
- 10 FIFRA is already limited in its statutory
- 11 reach by the requirement that pesticide registration
- decisions involve a cost benefit assessment, the
- 13 narrow unreasonable adverse effect clause. This acts
- 14 as a built-in check on so-called regulatory overreach
- 15 that might result from a more absolute direction to
- 16 protect human health and the environment.
- Using the regulatory environment in the U.S.
- 18 may have little effect for growers. Any grower
- 19 exporting food is aware that the tolerance standards
- set by other countries are frequently more restrictive
- 21 than those in the U.S. Regulatory reform is likely to
- create more difficulty for American growers to access
- export markets, not less.
- 24 And then, regulations do not exist in a
- vacuum but often have the effect of spurring

- 1 technological innovations. Just yesterday at the
- 2 PPDC, we learned of the development of sterile insect
- 3 release and genetically engineered mosquitoes to combat
- 4 the Zika virus. These technologies and the ability to
- 5 harness them in such a dramatically short amount of
- 6 time likely would never have been possible without
- 7 pesticide regulation on behalf of safety in the
- 8 environment. These technologies, you know, have been
- 9 in development for other pest problems for decades.
- 10 So, the Zika virus effort was able to take advantage
- 11 of technological advances that have occurred in the
- 12 past.
- On modification, we do have two comments.
- 14 Far from acting as a damper on business activity, EPA
- 15 has generally ignored pesticide impact to the most
- 16 vulnerable species, those listed under the Endangered
- 17 Species Act. To our knowledge, necessary procedures
- 18 to assess pesticide impact to listed species, as
- 19 recommended by the National Academy of Sciences, are
- 20 not codified in any current regulation.
- 21 As a result, almost none of the registered
- 22 active ingredients on the market today have been
- analyzed for the impacts on listed species. Of
- 24 those that have, more than 20 active ingredients
- 25 remain on the market, despite the fact that these

- 1 active ingredients have been determined to jeopardize
- 2 the continued existence of dozens of species of
- 3 Pacific salmon.
- 4 So, we recommend that registration
- 5 regulations be strengthened to incorporate the
- 6 concepts and procedures for listed species
- 7 evaluations, as outlined in the 2013 NAS report during
- 8 the registration and registration review processes.
- 9 Finally, no federal requirement exists for
- 10 pesticide use reporting. This hampers society's
- ability to understand how actual use is related to
- 12 empirical data on impact to human health and the
- 13 environment. We think requiring such data and having
- 14 it available would actually streamline difficult and
- 15 controversial analyses such as consultation documents.
- So, we recommend that the EPA modify existing
- 17 regulations to require mandatory pesticide use
- 18 reporting. Thank you for the opportunity to speak.
- 19 MR. KEIGWIN: And the last member from the
- 20 PPDC who is registered to speak this morning is Ray
- 21 McAllister with Crop Life America.
- 22 MR. McALLISTER: My name is Ray McAllister.
- 23 I'm the Senior Director of Regulatory Policy for Crop
- Life America. We're the national trade association
- 25 that represents the manufacturers, formulators, and

- distributors of crop protection products in the U.S.
- 2 We will be submitting written comments for the docket
- 3 but wanted to make a few brief remarks here.
- 4 We recognize this is one of multiple
- 5 opportunities and forums to discuss and advance
- 6 regulatory improvements, both grand and small.
- 7 Agriculture as a whole depends on a predictable,
- 8 science-based, and robust regulatory process to allow
- 9 crop protection products to reach farmers in a timely
- 10 fashion and to ensure that crops are protected, food
- is safe, and the environment is also protected.
- 12 We recognize the burden placed on American
- industry and agriculture by unnecessary, duplicative,
- or overly complicated regulations, no matter how well
- intentioned. We support efforts to streamline the
- 16 regulatory process and to make certain that it is
- 17 quided by common sense.
- 18 But we don't want to throw out the baby with
- 19 the bath water. In the middle of regulatory reform,
- we do not want the basic, but hard, and important work
- done by OPP, to be lost or delayed.
- To help support OPP's important work, CLA
- asks that the administration support reauthorization
- 24 of PRIA, the private sector funded fee for service
- 25 system that provides a portion of resources needed for

- 1 OPP to do its work in a timely fashion.
- 2 We also urge the Administration to budget
- 3 funding to states to support pest control operations
- and to support technology, product development at
- 5 agencies like EPA and USDA. Pest surveillance and
- 6 pest control to deal with mosquitoes is as important as
- 7 is vaccine development.
- 8 While we support OPP's mission, the Agency
- 9 needs a reset in some areas to preserve risk-based
- 10 regulation for pesticides based on sound science and a
- 11 predictable regulatory process. Past weaknesses in
- 12 EPA's risk assessment process have threatened the
- 13 effectiveness and range of crop protection tools
- 14 available to farmers and ranchers. Resetting the
- 15 process in science and restoring transparency and
- 16 predictability to the registration and review of
- 17 pesticides can resolve many of these concerns.
- 18 We believe that USDA's role is essential.
- 19 We are confident that regulator and meaningful
- 20 involvement of USDA and its extensive expertise can
- 21 help improve the process of regulating crop protection
- 22 products that are so critical for American
- 23 agriculture.
- As we discussed yesterday, we can do better
- when it comes to proper implementation of the

- 1 Endangered Species Act. We look forward to continuing
- 2 the hard work to find a path forward at the
- 3 intersection of FIFRA and ESA. Thank you.
- 4 MR. KEIGWIN: Thanks, Ray.
- We have a few minutes before the break. Let
- 6 me just see if there are other members from the PPDC -
- 7 Robyn Gilden?
- 8 MS. GILDEN: Hi, I am with the University of
- 9 -- Robyn Gilden with the University of Maryland School
- 10 of Nursing and also the Alliance of Nurses for Healthy
- 11 Environments. I'm not going to take my three minutes,
- 12 but I just wanted to say thank you very much for
- 13 having me on the PPDC for the past six years.
- I also want to just encourage EPA to not
- 15 take away regulations that protect human health. I'm
- 16 a nurse. I care deeply about the health side of
- 17 things. I care about the babies, and the elderly, and
- 18 the pregnant moms, and the most vulnerable of our
- 19 populations.
- So, I want the public health protections to
- 21 be the focus. I know that pesticides are important in
- 22 their place, but I strongly support the IPM model
- where you eliminate the pests structurally before you
- 24 get down to the chemicals. Thank you.
- MR. KEIGWIN: Are there any other PPDC

- 1 members? Andy Whittington?
- 2 MR. WHITTINGTON: Thank you. Andy
- 3 Whittington with the Mississippi Farm Bureau
- 4 Federation on behalf of American Farm Bureau
- 5 Federation.
- I do want to support the comments submitted
- $7\,$ $\,$ by USDA this morning. We are in concert with most of
- 8 those comments, especially an extension of the
- 9 compliance date with the WPS provisions. It's not
- 10 necessarily about the content of the WPS provisions,
- 11 but it is making sure that we have a timely manner to
- 12 get all of the farmers, and handlers, and workers
- properly trained to be in compliance with those
- 14 regulations.
- 15 There's plenty of evidence from the speakers
- 16 this morning that EPA has an incredibly tough job to
- do balancing the need of the farmers and the
- 18 consumers, as well as the environmental protections
- 19 that are required. So, we do appreciate that effort,
- and we will be submitting comments to the docket
- 21 related to this issue. Thank you.
- MR. KEIGWIN: Any other PPDC members? Oh,
- Valentin, Valentin Sanchez with the Oregon Law Center.
- 24 MR. SANCHEZ: Good morning, everyone. My
- 25 name is Valentin Sanchez. I currently work with the

- 1 Oregon Law Center as a community educator. Prior to
- 2 that, I was a farmworker for several years. My
- 3 parents are currently working as farmworkers in Santa
- 4 Maria, California. I'm very excited that we, you
- 5 know, do special accommodations to listen to people --
- 6 I wish we could do special accommodations to listen to
- 7 the stories of farmworkers.
- 8 My native language is not Spanish; it's
- 9 Mixteco. Pretty soon, we're going to start
- 10 reaching out to farmworkers in the state of Oregon.
- In the state of Oregon, there are over 160,000
- 12 farmworkers and more if we add the family members as
- 13 well. So, I've been speaking with farmworkers for the
- last 14, 15 years visiting labor camps, conducting
- outreach to parents, just making sure that the
- 16 community knows about, you know, the few laws to
- 17 protect them.
- So, I want to speak to the importance of
- 19 WPS. I've been speaking with farmworkers, and about
- 20 half of them are receiving training about how they can
- 21 protect themselves and protect their family members.
- Even those who do receive training are receiving
- 23 inadequate training because the materials that are
- 24 being used were developed in the 1990s. So, there's a
- 25 need for better information. There's a need for more

- 1 resources to make sure that farmworkers know how they
- 2 can protect themselves.
- 3 I also want to quickly mention the
- 4 importance of having the designated representative.
- 5 As I've said, I've spoken with farmworkers who are
- 6 afraid of speaking with their employers because
- 7 they're afraid of being retaliated against, they're
- 8 afraid of losing their jobs. So, oftentimes they
- 9 don't speak up for themselves. They need to rely on
- someone else to obtain information about which
- 11 pesticide they were exposed to.
- 12 So, this is very important, especially for
- 13 clinicians, to be able to treat the patient who has
- been exposed to pesticides. They need to know the
- name of the chemical that they were exposed to.
- So, I want EPA to continue to, you know,
- 17 implement, have worker protection standards. Very
- important. There's a huge need in the farmworker
- 19 community. So, I want to encourage you to continue to
- 20 do that. Thank you.
- 21 MR. KEIGWIN: Let me just see if there's --
- we probably have time for one more. Dawn Gouge?
- MS. GOUGE: Thank you. Dawn Gouge, urban
- 24 entomologist at the University of Arizona. I would
- 25 just ask EPA to not delay the implementation of worker

- 1 protection standards, not for a minute. There's two
- 2 things that drive innovation: regulation and
- disasters. Let's go the regulation way rather than
- 4 further disaster.
- 5 I'm a strong advocate for integrated pest
- 6 management and integrated vector management. So, I
- 7 just wanted to throw that term out there so that
- 8 everybody goes away and Googles integrated vector
- 9 management. Thank you.
- MR. KEIGWIN: Okay, so we're at about 10:00
- 11 Eastern Time. We're going to take a 15-minute break.
- 12 And then, when we return, we'll open it up for public
- 13 comments. We'll start with people who are here in the
- 14 room in Virginia and then we'll turn things over to
- 15 people who are participating via telephone. Thank
- 16 you.
- 17 (A brief recess was taken.)
- MR. KEIGWIN: Okay, everybody, if we could
- 19 take our seats, and we'll start the public comment
- session. So, we're going to move on to the public
- comment session now. We will start with people who
- registered in advance and are here in the room here in
- 23 Crystal City. We have posted up on the screen here
- 24 the order in which people registered to speak.
- 25 So that I don't butcher names, if you could

- 1 just come up to the mic that's here in the center of
- the room, introduce yourself and your affiliation.
- 3 And as with the session earlier this morning, there's
- 4 enough time for about three minutes of remarks. Dea
- 5 will hold up her one minute warning sign.
- 6 So, I believe the first speaker registered
- 7 is Julie Spagnoli, and we can go from there.
- 8 MS. SPAGNOLI: Julie Spagnoli, JM Specialty
- 9 Consulting. I'm an independent consultant, but I've
- 10 been in this industry for about 33 years. So, I've
- 11 been involved with OPP for a long time.
- 12 I've recently also become a farmer in the
- last four years, so I've gotten out and learned
- 14 firsthand how difficult farming can be and some of the
- 15 challenges that you face when you actually go out
- 16 there and do it.
- But to speak specifically to this topic, I
- just wanted to touch on a few things. I won't go into
- 19 a lot of details. We know that the Agency is facing
- limited resources in a lot of areas. We've seen it in
- 21 particular in the registration area.
- So, one of the suggestions is to look at
- 23 ways that we can reduce any unnecessary paperwork
- 24 burdens for both the industry and the Agency,
- 25 paperwork that's just not really used for any

- 1 particular purpose. This would include things like
- 2 final printed labeling, which because of the new
- 3 process that we have for getting label approvals, the
- 4 label is approved as a complete label. The final
- 5 printed label is made. There may be multiple
- 6 packages. It's really not serving a useful purpose
- 7 for the Registration Division. It is, obviously, a
- 8 compliance and enforcement issue, but that's done out
- 9 in the field.
- The other one, and it was touched on earlier
- 11 from the antimicrobial side, but also from the
- 12 registration side, is use of notification. That can
- 13 be a way to greatly streamline process for both the
- 14 Agency and registrants. We'd like to see that process
- 15 kind of go back to where it used to be where it really
- 16 was a notification. That way, like I said, it's less
- 17 paperwork for the Agency for processing and less work
- 18 for the registrants.
- 19 The last one is the use of what we want to
- 20 call a commonly used or commodity inert. These are
- inerts that are commonly used materials such as corn
- cob, peanut holes, food items like dried milk or
- peanut butter. Right now the rules require that the
- 24 registrant must identify every potential supplier of
- 25 those inerts, and it just creates a paperwork burden

- where they have to file a new confidential statement of formula,
- 2 every time they add a supplier. For materials like that, it
- just becomes a paperwork exercise and really doesn't provide any
- 4 additional protection.
- 5 There will be probably more details on some
- of these things, but those are just some of the things
- 7 we think can streamline the processes. Thank you.
- 8 MR. KEIGWIN: The next speaker is Steven
- 9 McFadden.
- 10 (No response.)
- 11 MR. KEIGWIN: Okay, the next person we have
- 12 registered is Kerry Richards.
- MS. RICHARDS: Good morning. I'd like to
- 14 thank you for the opportunity to speak. I spent the
- 15 last 27 years of my career at the pesticide safety
- 16 education program at Penn State University. For seven
- 17 years, I was director of that program.
- Currently, I'm working with the University
- of Delaware to revitalize their pesticide safety
- 20 education program. I'm working 40 percent of the time
- 21 with the new initiatives. That is the National
- Pesticide Safety Education Center. That 40 percent
- time means that now instead of working 180 hours, like
- 24 most of my colleagues do, I only work about 40 hours a

- 1 week.
- 2 So, I'm not speaking on behalf of any of
- 3 those organizations, but I wanted to give you a
- 4 perspective of my years and perspective of over 30 years
- 5 as a pesticide safety educator and someone who grew up
- 6 on a research farm who did research on chemicals and
- 7 pesticides that came onto the market.
- Before I do that, I did have one of my AAPSE
- 9 membership ask me to just kind of relay the
- 10 concern about EPA's mandate or requirement to help
- 11 support pesticide safety education programs through
- 12 funding, through state programs. It is in FIFRA law
- 13 that the EPA -- it's stated that the EPA is to use the
- 14 cooperative extension services to provide training.
- 15 The extension service is overseen by USDA NIFA and, as
- such, is part of the land grant institution.
- With EPA's mandate to ensure that state
- 18 plans provide state funding to pesticide safety
- 19 education programs, he indicates that he feels that it
- 20 can be perceived as any state at any time desires a
- 21 certified applicator, the governor shall decide which
- 22 program and the EPA administrator shall approve those
- 23 state programs. I mean, if it requires that approval,
- 24 that support for pesticide safety education programs
- 25 financially should be included in that approval of the

- 1 state plan.
- 2 What I wanted to bring to -- Liza spoke much
- 3 of the comments I was going to make. We're going to
- 4 submit them publicly. So, in the interest of time, I
- 5 would just echo what Liza said and ask that the EPA do
- 6 their diligence in providing education by helping and
- 7 continuing to support pesticide safety education that
- 8 serve in all 50 states.
- 9 I've been the classic example of when there
- is support from those Departments of Agriculture in
- 11 Pennsylvania. They were hugely supportive of our
- 12 program, and we were able to serve not only the
- 13 certified applicators in Pennsylvania but the
- 14 consumers and the public as well.
- 15 Over the last three years, I've been working
- with Delaware, who received no support from their
- 17 Department of Agriculture. Like most of my
- 18 colleagues, many states do the same thing. It's like
- 19 being McGyver where you just pull all the pieces apart
- and somehow we accomplish the purposes and educate the
- 21 stakeholders, the growers, the workers, and everyone
- that is out there that can potentially be affected by
- the misuse or the concerns of pesticide exposures.
- So, I would urge EPA to continue that
- 25 support and increase it whenever possible, especially

- with the new National Pesticide Safety Education
- 2 Center. The mission is to gather all these resources,
- 3 not just from pesticide safety education programs but
- 4 all the resources out there, so there's one consistent
- 5 repository so everyone can utilize their educational
- 6 materials to the most effective use and most efficient
- 7 use.
- 8 MR. KEIGWIN: Thank you.
- 9 Jennifer Sass from NRDC.
- 10 MS. SASS: Thanks very much. Thank you for
- 11 the opportunity to provide comments to support the
- 12 EPA's pesticide office and the important work that you
- 13 guys do.
- 14 NRDC, the Natural Resources Defense Council,
- is speaking on behalf of our two million members and
- 16 online supporters. NRDC objects to the false premise
- of the executive order that public safeguards are or
- 18 would hold back the nation.
- In reality, the safeguards that the Office
- of Pesticide Programs must provide to the public are
- vital to the health and safety of all, particularly
- 22 children and future generations. They're good for
- 23 business and the U.S. economy. I have citations to a
- 24 number of letters and articles from the ASBA, the
- 25 American Sustainable Business Association, testifying

- 1 to that.
- One important critical example of the health
- 3 protective safeguards of the Office of Pesticides has
- 4 been the Food Quality Protection Act, FQPA. It was a
- 5 bipartisan law that passed Congress unanimously in
- 6 1996 and the first environmental law that required
- 7 pesticide regulations to include specific protections
- 8 for the health of infants and children.
- 9 As a result of FQPA implemented by the
- 10 pesticide office, the nation's use of pesticides has
- 11 moved away from some of the most dangerous ones,
- 12 particularly the organophosphates, or OP insecticides.
- 13 EPA actions to protect children from harmful
- 14 pesticides is good for health and good for business.
- 15 A 2015 European Union study cited costs
- associated with lost IQ points and intellectual
- disabilities arising from only two categories of
- 18 chemicals, the PBDEs, polybrominated diphenyl ethers,
- which are flame retardants, and organophosphate
- 20 pesticides, are estimated at 155 billion euros, about
- \$170 billion US annually for one member. There are
- 22 citations for all of that that are included.
- For one member of the OP pesticides,
- 24 chlorpyrifos, scientists have shown that it interferes
- with brain development resulting in poor working

- 1 memory and reduced IQ and developmentally exposed
- 2 children. For these reasons, all home uses of
- 3 chlorpyrifos were cancelled in 2001, but the
- 4 negotiated requirement for that cancellation was that
- 5 although there was a reduction of over six million pounds
- 6 annually used in people's homes, the agriculture uses
- 7 were able to continue.
- 8 EPA's protective actions on chlorpyrifos in
- 9 the residential cancellations resulted in a 66 percent
- 10 reduction in poisonings since that, demonstrating the
- importance of regulatory safeguards for keeping our
- 12 loved ones safe. I have references to that from
- presentations by EPA to the PPDC in November of 2006.
- 14 Unfortunately, chlorpyrifos, while no longer
- 15 allowed in homes, is still allowed in agriculture at
- 16 somewhere between 5 and 10 million pounds a year on
- 17 many crops, including crops that children regularly
- 18 eat, as well as being responsible for a number of
- worker poisonings and drifts to suburban and
- 20 residential homes.
- 21 Federal experts also reported recently that
- 22 chlorpyrifos and other organophosphate pesticides
- still used on crops are harmful to almost 1,800
- 24 critically threatened or endangered species, making it
- a threat to wildlife and ecosystems as well.

- 1 Over 60 scientists and medical professionals
- wrote in 2016 to support EPA in their proposal to
- 3 cancel all food tolerances. Under the Obama
- 4 Administration, EPA developed a 2015 proposal, again
- 5 confirming it in 2016 to do this.
- 6 Unfortunately, the White House and Dow
- 7 Chemical, which donated \$1 million to President
- 8 Trump, and whose CEO is the White House pick for
- 9 heading up the American Manufacturing Council, appears
- 10 to have dodged the cancellation. Instead of enforcing
- 11 legally mandated safeguards, Pruitt Pollutes
- is allowing EPA to let this continue to harm children.
- 13 Thank you.
- 14 MR. KEIGWIN: Next speaker is Peter Jenkins
- with the Center for Food Safety.
- 16 MR. JENKINS: Thank you, Rick, and members
- 17 of the panel. I'm an attorney and policy analyst for
- 18 the Center for Food Safety, a nonprofit group
- 19 headquartered in DC but with offices in San Francisco,
- Portland, Oregon, Honolulu, and 830,000 members.
- 21 First, I want to address President Trump's
- 22 Executive Order 13771, which was in the materials.
- 23 It's sort of part of this deregulatory package but
- hasn't been talked about yet. That's the one that
- 25 proposes elimination of two existing regulations for

- 1 each new regulation adopted.
- I think there's been no support for that
- 3 from any speaker. I don't think you're going to find
- 4 any support for that from anyone familiar with this
- 5 pesticide regulatory world. There's no place for it
- 6 in the FIFRA pesticide context. For example, the
- 7 tolerances for pesticides on foods are adopted by
- 8 regulation. It's absurd to suggest that you should
- 9 eliminate two tolerances for each new tolerance
- 10 adopted.
- So, we hope that your agency recognizes that
- 12 the two for one idea is inherently arbitrary and
- capricious, would violate underlying statutory
- standards and is going to lead to unnecessary
- 15 litigation. So, convince the administrator to
- 16 convince OMB that the two for one really has no place
- in this world.
- Now, with respect to the President's
- 19 Executive Order 1377, which is kind of the focus here
- on regulatory costs, I guess I would respectfully
- 21 disagree with some other speakers that the questions
- 22 under that public announcement that EPA put out were
- 23 not good questions, because there are some good
- 24 questions there. For example, which existing
- 25 regulations are obsolete, which existing regulations

- 1 are not transparent, which existing regulations are in
- 2 need of modification.
- 3 There are several. We will submit written
- 4 testimony to that effect about several of them, but I
- 5 want to just focus on two of high priority. The first
- 6 is 40 CFR 152.25A, otherwise known as the treated
- 7 article exemptions, adopted in 1988.
- 8 1988 was long before this notion of using
- 9 systemic seed coatings as pesticides to get absorbed
- into the plant and then make the plant itself
- 11 pesticide before that was realized. Yet, the Agency
- 12 is using that 1988 treated article exemption to exempt
- 13 the most prevalent widespread use of insecticides in
- 14 the country, which is the seed coatings, the
- 15 neonicotinoid seed coatings, clothianidin,
- 16 thiamethoxam, and imidacloprid especially. That's
- 17 causing extreme harm and burden on the environment, on
- water quality, and I'm going to mention in particular
- 19 with respect to beekeepers.
- 20 Last week, the three major beekeeping
- 21 organizations in the country, along with several
- 22 environmental groups, the American Bird Conservancy,
- 23 Center for Food Safety, individual beekeepers and
- 24 farmers all submitted a petition to you to revise your
- interpretation of that old out-of-date obsolete

- 1 regulation to bring it into the current reality, which
- is, you've exempted the most widespread use of
- 3 insecticide in the country from actual enforceable
- 4 labels and actual safety standards that the farmers
- 5 have to comply with.
- As a result, beekeepers have no recourse
- 7 when their bees get killed by the dust. There's no
- 8 enforcement against the harms that are being caused
- 9 from these coated seeds going into the waters, killing
- 10 birds, killing bees, you name it. American Honey
- 11 Producers Association, American Beekeeping Federation,
- 12 Pollinator Stewardship Council have all endorsed it.
- 13 When the three major national beekeeping
- organizations are telling you you need to change your
- 15 regulation, you should take it seriously if you want
- to get serious about protecting bees, which is an
- important big ag interest, very important to
- 18 agriculture. Pollination is suffering, yet your
- 19 regulatory problem has created this loophole. So,
- 20 reform that one, please.
- MR. KEIGWIN: So, I think in the interest of
- 22 time, I think we need to go on to the next speaker.
- 23 If there's time remaining, you could come back up.
- 24 But we do have a number of other speakers registered.
- MR. JENKINS: Thank you, will do.

- 1 MR. KEIGWIN: Daniel.
- 2 MR. RAICHEL: Good morning, my name is Dan
- 3 Raichel. I do eat food, and I have a
- 4 family that I want to protect, which is probably why
- 5 I'm an attorney with the Natural Resources Defense
- 6 Council, which for over 45 years has fought to protect
- 7 people and the environment from the harms of toxic
- 8 chemicals.
- 9 I speak today to remind the Agency, as it
- 10 appears poised on carrying back critical protections
- 11 for clean air, clean water, and healthy ecosystems,
- that it is not at liberty to shirk its
- 13 responsibilities under our nation's bedrock
- 14 environmental laws by eliminating regulations. It
- 15 needs to comply with those laws.
- 16 Specifically, EPA must not attempt to cut
- 17 corners in its mandatory review of registered
- 18 pesticides, including assessment of their known or
- 19 likely harms to our nation's pollinators and
- 20 endangered species. Some of those harms are already
- 21 apparent. For over 10 years, we've seen bee
- 22 populations succumb to massive losses, concurrently
- with the growth and widespread use of a new class of
- 24 pesticides, neonicotinoids or neonics.
- 25 Indeed, just this March, the rusty patched

- 1 bumblebee, once common in 28 states, became the first
- 2 bee in the continental U.S. to be placed on the
- 3 endangered species list. The listing decision
- 4 identifies the use of neonics as a contributing factor
- 5 in the bee's close to 90 percent decline in the last
- 6 20 years.
- 7 Equally, or perhaps more important in the
- 8 well known harms however, are the ones that we are
- 9 just now learning about. In January, EPA put out
- 10 biological evaluations for three pesticides,
- 11 chlorpyrifos, diazinon, and Malathion, concluding that
- 12 collectively, their use is likely to adversely affect
- 13 almost 1,800 protected species. These evaluations
- 14 represent only a small fraction of the outstanding
- 15 endangered species evaluations EPA now needs to
- 16 perform.
- 17 Performing those evaluations, along with the
- 18 required registration reviews, is important work.
- 19 Significantly, it is also work EPA is required to do
- 20 by law. The Agency must ensure that any action it
- 21 carries out is not likely to jeopardize a federally
- 22 protected species and that the pesticides it registers
- do not cause unreasonable adverse effects on people or
- 24 the environment.
- 25 That work is fundamental to the Agency's

- 1 purpose. It ensures that our ecosystems aren't
- 2 hallowed out by careless disregard, that Americans
- 3 aren't needlessly exposed to toxic pesticides, and
- 4 that in the case of pollinators, we do not heedlessly
- 5 destroy a group of species that are critical to
- 6 producing 70 percent of the major crops we consume.
- Now, over the years, EPA has developed rules
- 8 designed to assure that the Agency complies with the
- 9 letter of the law. Those rules cannot now be
- 10 eliminated only to satisfy an arbitrary rulemaking
- 11 principle -- and that's just what Peter just talked
- 12 about -- particularly when they are essential to
- protecting people and natural resources like
- 14 pollinator populations that we all depend on.
- 15 Accordingly, as EPA moves forward with
- 16 implementation of the president's executive order, we
- caution the Agency to be mindful of its mandatory
- 18 statutory responsibilities and that we will be
- 19 watching this process very carefully. Thank you.
- 20 MR. KEIGWIN: Our next speaker is Tiffany
- 21 Finck-Haynes.
- MS. FINCK-HAYNES: Thank you. I'm here
- 23 representing Friends of the Earth and our over one
- 24 million members and supporters nationwide. Friends of
- 25 the Earth is a national environmental organization

- 1 that is working to defend the environment and champion
- 2 a healthy and just world.
- 3 We're part of a federation of groups
- 4 internationally working in 76 countries on today's
- 5 most urgent environmental and social issues.
- 6 Discussing what existing pesticide regulations should
- 7 be fleshed is sacrificing public health on the altar
- 8 of corporate profits and will destroy America, not
- 9 make it great.
- 10 Pesticide regulations have a number of
- 11 benefits, including protecting our environment, our
- 12 critical habitat, wildlife, water, soil, and public
- 13 health. Many of the pesticides EPA is currently
- 14 reviewing are highly toxic and contribute to human
- diseases such as cancer and liver disease.
- 16 Other countries have restricted or banned
- these pesticides, such as glyphosate,
- 18 neonicotinoids, atrazine, and pyrethroids.
- 19 Regulations on these chemicals should be strengthened
- 20 to follow in the footsteps of what other
- 21 countries have done. We must take these chemicals off
- 22 the market to safeguard public health and the
- environment.
- 24 We urge EPA to not put millions of lives at
- 25 risk so that polluters can further profit from

- 1 destruction of our environment. Pesticide regulation
- 2 should be grounded in science and the law so that our
- 3 soil, water, wildlife, and public health can keep us
- 4 healthy and thriving.
- 5 We believe this conversation is dangerous
- and based on corporate greed and environmental
- 7 pollution. We call on EPA to uphold its mission and
- 8 protect public health and our environment by
- 9 strengthening existing laws and regulations. Thank
- 10 you.
- 11 MR. KEIGWIN: So, I believe our next speaker
- is going to be Brett Hartel. Jim Tozzi, who is up on the
- board, had to leave early.
- 14 MR. HARTEL: This is Brett Hartel at the
- 15 Center for Biological Diversity. I'll do my best to
- 16 keep this to three minutes, but I don't have a million
- 17 dollars like Dow Chemical to give to President Trump.
- 18 So, if I go over, I apologize.
- 19 The premise of this ridiculous sham hearing
- that the pesticide industry is somehow overburdened by
- 21 reasonable regulations designed to protect the health
- of people, wildlife, and the environment we share is
- 23 fatally flawed. Donald Trump and Scott Pruitt's
- transparent attempts to enrich themselves and their

- 1 special interest masters quite literally puts lives at
- 2 risk. It puts our environment at grave risk, and it
- 3 moves dozens of endangered species closer to
- 4 extinction.
- 5 To suggest that common sense measures to
- 6 protect us all from toxic chemicals should be repealed
- 7 is unconscionable and will not be tolerated by the
- 8 American people. The notion that the pesticide
- 9 industry, which includes some of the richest
- 10 corporations in the world, with billions in profits
- 11 last year, can't handle the so-called burdens of
- 12 regulations is laughably absurd.
- 13 The pesticide industry has effectively
- 14 written most of the regulations that govern the
- 15 pesticide approval process. As a result, thousands of
- 16 miles of streams and rivers are impaired by the EPA's
- 17 own estimates by pesticide pollution. The last time
- 18 the EPA had the courage to cancel a pesticide due to
- 19 the imminent hazard provision of FIFRA was more than
- 20 30 years ago.
- 21 The so-called ecological risk assessment
- 22 process now in place is not much more than a rubber
- 23 stamp to approve pesticides that conclude that
- everything is fine, when it isn't. And yet, the
- 25 pesticide industry cries that the sky is falling when

- 1 actual scientists at the US Fish and Wildlife Service
- 2 and the National Marine Fishery Service conclude that
- 3 an insecticide, like chlorpyrifos, might actually kill
- 4 endangered insects like butterflies.
- 5 But here are the actual facts. There are
- 6 270 different recovery plans for endangered species
- 7 that have concluded that pesticides are a key threat
- 8 to their survival and recovery. In the last few
- 9 years, species like the Dakota skipper and the rusty
- 10 patch bumblebee have needed protection under the
- 11 Endangered Species Act because of status quo use of
- 12 pesticides.
- The facts are irrefutable. The EPA
- desperately needs to improve and strengthen its
- existing regulations so that ecological risk
- 16 assessment process complies with the law, and it
- 17 protects people and endangered species. Instead of
- 18 protecting industry, EPA should do what is needed to
- 19 be done to protect people from the more than one
- 20 billion pounds of pesticides that are applied across
- 21 the United States every year.
- 22 I'll note, and it's simply a matter of law,
- 23 any time this Agency takes a discretionary action to
- 24 repeal any regulation or to weaken a regulation that
- 25 harms an endangered species, we will fight you every

- 1 step of the way.
- 2 MR. KEIGWIN: Our next speaker is Stephanie
- 3 Kurose. I apologize if I pronounced that
- 4 incorrectly.
- 5 MS. KUROSE: No, that's right. Hi, my name
- 6 is Stephanie Kurose, and I am with the Center for
- 7 Biological Diversity. My parents are beekeepers, so
- 8 this issue is near and dear to my heart. But today
- 9 I'm not going to talk about bees; I'm going to talk
- 10 about the monarch.
- 11 The monarch is a beautiful animal, and it's
- 12 an incidental pollinator. There used to be so many of
- 13 them that the sound of their wings was described as a
- rippling stream for a summer rain. There are early
- 15 descriptions of tree branches breaking from the weight
- of so many butterflies. Every winter, they undertake
- 17 a legendary 2,000 mile journey from Canada to their
- 18 over wintering sites in Mexico. They use the very
- same trees every year when they migrate, which is
- 20 pretty amazing because they aren't the same
- 21 butterflies that were there the year before.
- Now, thanks to glyphosate and the widespread
- use of pesticides and herbicides, monarchs are now
- 24 plummeting towards extinction. The monarch population
- 25 has declined over 80 percent in the last 20 years.

- 1 The 2017 overwintering count released in February
- 2 found that butterfly numbers fell by nearly one third
- 3 from last year's count. Scientists estimate that the
- 4 monarch has lost more than 165 million acres of
- 5 habitat, an area about the size of Texas, in the last
- 6 20 years. They have also lost nearly a third of their
- 7 summer breeding ground.
- 8 Last year, a study by the U.S. Geological
- 9 Survey concluded that the monarch now faces extinction
- 10 within 20 years. Monarchs only eat one thing, and
- 11 it's milkweed. The animals used to rely on milkweed
- in corn and soybean fields in the Midwest until
- 13 glyphosate started being widely used, which kills
- 14 milkweed.
- 15 Glyphosate is now used on over 90 percent of
- 16 all corn and soy and has removed nearly all the
- 17 milkweed. So, basically, you have one type of
- herbicide that has virtually wiped out an entire
- 19 species. California recently announced that it would
- 20 list glyphosate as a human carcinogen under its
- 21 Proposition 65. Yet, pesticide companies want a
- 22 swift re-registration of the ingredient.
- 23 Honestly, I'm in disbelief that the EPA
- 24 would consider anything less than issuing more
- 25 stringent regulations over the use of toxic

- 1 pesticides. Instead, we're here at the behest of
- 2 Scott Pruitt who hates the mission of environmental
- 3 protection to gut regulations. The idea that EPA
- 4 would hesitate to regulate chemicals that can wipe out
- 5 pollinators critical to our ecological health and food
- 6 security is beyond ridiculous.
- 7 Now is not the time to be complacent. We
- 8 will have tragic consequences if you guys don't act to
- 9 safeguard humans and wildlife from toxic chemicals.
- 10 Thank you.
- 11 MR. KEIGWIN: Our next speaker is Howard
- 12 Crystal.
- MR. CRYSTAL: Good morning, my name is
- 14 Howard Crystal. I'm an attorney in the Climate Law
- 15 Institute at the Center for Biological Diversity.
- 16 Because this meeting is being conducted to carry out
- 17 the regulatory reform executive order, I want to begin
- 18 by reiterating that while the executive order directs
- 19 agencies to remove "unnecessary regulations," it also
- 20 makes clear that it must be done "consistent with
- 21 applicable law."
- Therefore, while the executive order speaks
- 23 to reforming regulations which may be outdated or
- 24 ineffective, it does not and cannot give EPA the power
- 25 to alter Congress' mandate that you prevent

- 1 unreasonable adverse effects on the environment from
- 2 pesticides.
- Regulating pesticides, like any other
- 4 regulation, imposes some burden. It would obviously
- 5 be more profitable to simply sell a poison than to get
- 6 government approvals, create proper labeling, and
- 7 ensure appropriate usage. But congress made the
- 8 judgment in FIFRA that just a minor burden pales in
- 9 comparison to the public benefit of protecting humans
- 10 and the environment from harmful chemicals. Neither
- 11 the executive order nor this agency has the
- 12 constitutional power to change either that judgment or
- 13 the EPA's mandate under the statute.
- 14 To follow that congressional mandate, it is
- absolutely clear that rather than remove regulations,
- 16 EPA has enormous work to do to protect the environment
- from the ongoing environmental harm caused by
- 18 pesticides. For example, it is well recognized that
- in addition to human harm, pesticides are responsible
- 20 for putting other species in peril of extinction.
- 21 Salmon, frogs, and salamanders are just a few of the
- 22 species especially sensitive to pesticides, and
- further regulations of pesticides is essential to
- 24 protect and recover these species.
- 25 It's also essential to consider the

- 1 relationship between climate change and pesticide use.
- 2 By reversing progress made to combat climate change,
- 3 this administration is exacerbating changes in weather
- 4 patterns and other factors that will undoubtedly pose
- 5 increasing challenges to farmers in years to come.
- 6 Allowing increased reliance on pesticides to
- 7 mitigate those challenges may well become tempting,
- 8 but it cannot be more clear that the most effective
- 9 and cheapest way to address these problems is to take
- 10 the steps necessary to minimize climate change rather
- 11 than trying to protect our food supply from its impact
- 12 by further poisoning the environment with toxic
- 13 pesticides. Thank you.
- 14 MR. KEIGWIN: Our next speaker is Bill
- 15 Jordan.
- 16 MR. JORDAN: Thank you for the opportunity
- 17 to speak to you. My name is Bill Jordan, and I used
- 18 to work at EPA. I'm now an independent consultant
- working with law firms, corporations, environmental
- 20 advocacy organizations, and the like.
- I want to start off by noting that the
- 22 comments so far have just suggested a lot more work
- 23 than I think is possible for EPA to do. So, you all
- 24 are going to have to make some choices about which of
- 25 the proposals you pursue. I'd like to offer a

- 1 suggestion about a way to think about that.
- I think you ought to try to find regulatory
- 3 relief that reduces burdens and at the same time
- 4 provides environmental protection or improves human
- 5 health protection.
- 6 The second category of suggestions I think
- 7 you should look at are those that improve efficiency
- 8 which makes it possible for EPA to move regulatory
- 9 decisions through more efficiently, more
- 10 transparently, that provides support to the public so
- 11 they can be effectively involved.
- 12 Then, the third category are the ones that
- are really tough choices where you're trading off
- reducing some regulatory burdens, but those regulatory
- burdens may also be ones that involve real
- 16 protections. I think the suggestions about worker
- 17 protection standards and certification training fall
- 18 into that category.
- I have one suggestion that nobody has
- 20 mentioned that falls, I think, into the first
- 21 category. That's how EPA policies affect the handling
- 22 of damaged pesticide containers. Large lawn and
- garden stores like Home Depot or Walmart or others
- occasionally find that the bags of pesticides and
- 25 fertilizers are damaged during transportation and

- 1 handling. EPA says that those containers have to be
- 2 diverted to the hazardous waste stream.
- 3 It seems to me that if there were another
- 4 alternative, which EPA policies could promote, of
- 5 repackaging and reconditioning those products safely,
- 6 that it would both save money for industry and reduce
- 7 the amount of pesticides that goes into the
- 8 environment with no pesticidal benefit.
- 9 I have a number of suggestions that relate
- 10 to clarifying the jurisdiction between EPA and other
- 11 agencies that I think could fall into the second tier
- of changes, changes that would address, for example,
- 13 places where jurisdictions are either overlapping or
- 14 unclear or maybe both.
- 15 Pesticides and new animal drugs, for
- 16 example, something that's added to an aquarium for
- 17 protecting the fish from parasites, FDA's new animal
- drug or EPA's or what. I think you could look
- 19 seriously at pesticides and medical devices. Most
- 20 disinfectants are considered medical devices as well
- 21 as pesticides.
- There are several others I can go through at
- 23 a later point. Thank you.
- MR. KEIGWIN: Okay, that concludes those who
- 25 had registered in advance. We're now going to go to

- 1 the people who registered in advance on the phone.
- 2 And then, time permitting, we'll come back to here in
- 3 the room. So, at this point, I'm going to turn the
- 4 moderator duties over to my colleague, Claire
- 5 Gesalman.
- 6 MS. GESALMAN: Thank you very much. I
- 7 would ask as I call a person's name who has registered
- 8 to speak on the phone, that you press pound 6 to
- 9 unmute your line. You will hear the operator say
- 10 unmuted. At that point, please give your name and, if
- 11 you have an affilliation, you may give that.
- 12 We will say thank you or something along
- that line, at which point you know we're hearing you
- 14 and you can go ahead and speak. Each person has three
- 15 minutes. Since I can't hold up a card to the folks on
- 16 the phone, if you can keep an eye on your clock, and
- 17 I'll basically tell you when your time is up. Then,
- when the time is up for your three minutes, please
- 19 press star 6 to remute yourself.
- The first person on our list, and I
- 21 apologize in advance if I mispronounce anyone's name,
- is Telisport Putsavage. Please press pound
- 23 6 to unmute.
- MR. PUSAVAGE: Good morning, I just unmuted.
- 25 This is Telisport Putsavage.

- 1 MS. GESALMAN: Great, thank you. Go
- 2 ahead.
- 3 MR. PUSAVAGE: Thank you. Thank you for the
- 4 opportunity to address pesticide regulatory reform
- 5 issues. By way of brief background, I'm an attorney
- 6 with 35 years of FIFRA experience. I counseled the
- 7 pest management program of the New York State
- 8 Department of Environmental Conservation for 15 years,
- 9 and I've had a FIFRA-focused private practice for 20
- 10 years. I have also owned a farm.
- 11 The Agency is undertaking this examination
- 12 of regulatory reform at a time when it is facing great
- 13 stress, both budgetary and programmatic. As an
- 14 example of already existing stress, I would note that
- while industry is fortunate to have PRIA and its
- deadlines, the resulting impact on non-PRIA actions
- 17 have made the term fast track amendment an oxymoron.
- In light of this stress, my suggestions
- 19 focus not on rules to change but on urging the Agency
- 20 to focus its efforts and resources in order to
- 21 preserve the primary mission of the program. OPP
- 22 should adhere to FIFRA and the rules as currently
- 23 promulgated rather than stretching Agency and
- 24 regulated party resources in efforts that are perhaps
- 25 well-intentioned but ignore existing law and

- 1 regulation.
- 2 A most graphic recent example of this
- 3 Overreach is the December 1, 2016, memorandum from the
- 4 directors of the Registration and Antimicrobial
- 5 Divisions, which allegedly clarifies requirements for
- 6 the location of the first aid statement on labels of
- 7 toxicity category two and three products. Not content
- 8 with and notwithstanding the express authority of 40
- 9 CFR 156.68(d), which states that such statements may
- appear "on any panel of a product," this memorandum
- 11 purports for the first time under FIFRA to define the
- term panel in relation to a label.
- 13 In addition, the memorandum renounces the
- 14 past agency approach to this issue, declaring that the
- 15 new definition of panel has been in effect all along
- and intimates that the registrants face potential
- 17 enforcement action against labels approved by the
- 18 Agency.
- 19 Another example was a demand by a product
- 20 reviewer expressly stating concern over childhood
- 21 consumption of apples, that apples should be removed
- from an insecticide label. This demand expressly
- 23 conflicted with the re-registration eligibility
- document, which determined that continued use of the
- 25 ingredient on apples posed no unacceptable risk. That

- 1 position resulted in needless waste of time required
- 2 to obtain reversal from highest level staff.
- 3 Another example is an effort by a region to
- 4 prosecute a registrant for allegedly unlawful conduct
- 5 over a 15-year period by a distributor registrant
- 6 despite the fact that the Agency acknowledges that the
- 7 primary registrant canceled the distributor
- 8 registration (inaudible) earlier.
- 9 Well, the rules clearly provide that a
- 10 primary registrant is liable for the conduct of a
- 11 distributor registrant. Agency materials also make
- 12 clear that such liability extends for only 18 months
- following the cancellation of the distributor
- 14 registration.
- MS. GESALMAN: Thank you very much for
- 16 your comments.
- 17 If anyone else has unmuted their line,
- 18 please remute yourself.
- 19 The next person is Jeannie Economos. Please unmute.
- MS. ECONOMOS: Can you hear me?
- MS. GUESSELMAN: Yes. Please start.
- MS. ECONOMOS: This is Jeannie Economos from
- 23 the Farmworker Association of Florida.
- There would be no farms if there were no

- 1 farmworkers. The majority of the public in the United
- 2 States would not have food to eat if there were no
- 3 farmworkers in the fields harvesting the food that all
- 4 the rest of us eat. Yet, in order to get that food to
- our table, farmworkers have to put their lives at risk
- 6 every day in the fields from multiple hazards in the
- 7 workplace, especially from exposure to pesticides.
- 8 Farmworkers are the most vulnerable in our community,
- 9 and they deserve our attention and respect.
- In regards to regulations, I would like
- 11 people to come here and sit in our office where every
- 12 day we see farmworkers coming into our office. I have
- 13 to sit face to face with farmworkers and look them in
- 14 the eye and tell them that there's nothing I can do
- 15 because the rules are not strong enough to protect
- 16 them.
- 17 Farmworkers who tell me that their children
- were born with learning disabilities, with ADHD, with
- other behavioral and neurological problems because of
- 20 exposure to pesticides, I have to tell them that the
- 21 cost to their children is a benefit to the industry.
- 22 That is not acceptable.
- In regards to the designated representative
- 24 provision in the WPS, Florida has had a Florida right-
- 25 to-know law in the state of Florida since 1994 and

- 1 '95, and there has never been any cases of any issues
- 2 that the farm bureau is concerned about in terms of
- 3 any kind of retaliation or problems to farmers because
- 4 of the Florida right-to-know law. So, that shows that
- 5 it's possible to have it nationwide, and the fears
- 6 around the designated representative are unfounded.
- 7 So, I just wanted to say that we need to
- 8 keep the protections of the farmworker protection
- 9 standard and the designated representatives and also
- 10 the strengthened certified applicator regs, because I
- 11 work with farmworkers every day. Our organization is
- 12 a grassroots organization. We see farmworkers in our
- offices all the time, and we see firsthand the effects
- of both short term and long term effects of pesticides
- on farmworkers.
- 16 When we're discussing these regulations, we
- need to think about the next generation and the costs
- 18 to our healthcare, our public health, from the effects
- of pesticides. We're not even talking about long-term
- 20 consequences and combinations of pesticides because
- 21 farmworkers are exposed all the time.
- We need stronger protections. Farmworkers
- 23 deserve stronger protections. Anybody that eats --
- MS. GESALMAN: Thank you very much for
- 25 your comments.

- 1 The next person on the list is Antonio Tovar.
- 2 Antonio, are you there?
- 3 (No response.)
- 4 MS. GESALMAN: Okay, the next person on
- 5 the list is Tim Creger.
- 6 MR. Creger: This is Tim. Can you hear me?
- 7 MS. GESALMAN: Yes.
- 8 MR. Creger: Hi, this is Tim Creger. I'm
- 9 with the Nebraska Department of Agriculture. I'm a
- 10 past president of AAPCO, which Liza Fleeson currently
- is representing on the PPDC. I want to make four
- 12 comments, first a general comment to the Office of
- Policy, and then I want to address specific examples
- of burdensome regulations, experience that we've
- 15 experienced on the state level, and past attempts at
- 16 reducing regulation that did not result in the
- 17 anticipated benefits, then again a cooperative
- 18 federalism, which has not been addressed too much in
- 19 any of the comments today.
- 20 First, specific to the Office of Policy at
- 21 EPA, I just would like to have them understand how
- 22 FIFRA is different than most of the other federal
- environmental laws that EPA administers. When we talk
- about federal regulation of pollutants, programs such
- 25 as TSCA, Clean Air, Clean Water, those programs are

- designed to remove or eliminate pollution from the
- 2 environment that impacts our human health.
- 3 When it comes to FIFRA, however, it's
- 4 important to realize and understand that federal law
- 5 actually requires EPA to not only protect human health
- 6 in the environment, but it also requires them to
- 7 ensure that there are safe and effective pesticides
- 8 available to the consuming public.
- 9 It's not to argue the benefits of the
- 10 pesticides, but it is to argue that -- it's important
- 11 to remember FIFRA does allow for those toxicants to be
- 12 placed in the environment. They need to be regulated
- 13 appropriately.
- 14 When I address burdensome regulations, I
- 15 think it's important to understand that state lead
- 16 pesticide agencies such as ours rely heavily on the
- financial and knowledge support that we receive from
- 18 EPA. However, since 2009, funding from Congress has
- 19 been static or reduced to state agencies, as well as
- 20 to those universities that conduct pesticide
- 21 applicator education.
- The recent revisions to three of the major
- 23 regulations has effectively increased the work burden
- on the state lead agencies, while realizing less money
- 25 to support them. Those regulations are the container

- 1 containment regulations, Section 19 of FIFRA, the
- 2 Worker Protection Standard rule, and the Certification
- 3 and Training rule.
- 4 Addressing experiences in the past that have
- 5 not resulted in what the intended effect was, previous
- 6 regulatory reduction programs EPA has attempted have
- 7 resulted in significant increased impacts to state
- 8 lead agencies.
- 9 As indicated by the gentleman from Purdue
- 10 University, actions by EPA to exempt numerous active
- ingredients under section 25(b) of FIFRA has resulted in
- 12 a patchwork of state regulation that is nearly
- impossible for industry and the public to understand
- 14 or navigate.
- 15 It should be noted that in the absence of
- 16 federal regulation, states are faced with the decision
- 17 to either exempt or further regulate those pesticides
- 18 creating that patchwork of different regulations on the
- 19 state level.
- MS. GESALMAN: Thank you very much for
- 21 your comments. If you have further comments,
- 22 everybody is reminded to put them in the docket, which
- 23 you have information through the various resources
- 24 that we have.
- The next person on the list is Carrie Hugo.
- MR. TOVAR: Hello, can you hear me now?

- 1 MS. GESALMAN: Yes, we can hear you.
- 2 MR. TOVAR: Yes, this is Antonio Tovar.
- 3 Sorry, I was trying to unmute my phone before.
- 4 MS. GESALMAN: Is this Antonio?
- 5 MR. TOVAR: Yes.
- 6 MS. GESALMAN: Okay, great, thank you.
- 7 MR. TOVAR: Okay, thank you. So, until last
- 8 fall, I was the pesticide (inaudible) investigator for
- 9 the Florida Department of Health. Full disclosure, this
- 10 position was funded by EPA. So, I'm talking on a
- 11 personal behalf. I'm not talking about the Department
- of Health. As I mentioned, I just end my work in
- 13 there.
- 14 But I've been working for farmworkers for 10
- 15 years. I work with the population as an educator, as
- 16 a researcher, as an epidemiologist. EPA has been an
- 17 important source of data for me for all these years as
- 18 a quidance for the regulations that look for the well
- being of workers, residents, and the environment. I'm
- 20 disheartened by the proposed changes.
- 21 Many before me have mentioned the scientific
- value you provide and how these knowledge guide most
- of the EPA regulations. So, I want to focus a little

- 1 bit on the cases that I investigated.
- 2 During my time at the Department of Health,
- 3 I investigated several cases of workers or residents
- 4 in rural areas, many times not for bravery but because
- 5 they end up in the hospital with the damaging effects of
- 6 pesticides. Many of these cases demonstrate the alleged
- 7 violations of workers' protections and improper use of
- 8 pesticide, neglection and even cases of retaliation by
- 9 growers and even the pesticide producers and lack
- 10 complete disregard for environment.
- 11 Without the EPA regulations, we'd all be
- more vulnerable in this regard for what's happening.
- So, I would like to propose these kind of changes.
- 14 Thank you.
- 15 MS. GESALMAN: Great, thank you for your
- 16 comments.
- 17 The next person on the list is Carrie Hugo.
- 18 You can unmute. Press pound 6 to unmute, Carrie.
- 19 (No response.)
- MS. GESALMAN: Okay, Diane Boesenberg, you can
- 21 unmute.
- MS. BOESENBER: This is Diane. Can you
- 23 hear me?
- MS. GESALMAN: Yes, I can. Go ahead.
- 25 MS. BOESENBERG: Okay, great. So, my name

- 1 is Diane Boesenberg. I'm the Director of Regulatory
- 2 and Government Affairs at Reckitt Benckiser. As a global
- 3 manufacturer of end use products in the antimicrobial
- 4 space and also with a line of products that work with
- 5 the FDA, we see a lot of areas for improvement with
- 6 regulatory reform. This includes looking outside the
- 7 current EPA process for best practices, which will
- 8 lead to efficiency and resource savings opportunities,
- 9 leaving the EPA with time to do other things.
- In addition to the comments already made on
- 11 questions of jurisdiction, we intend to put these
- 12 comments and some others into the official regulatory
- 13 reform process.
- 14 Some of the things that we see that could
- 15 save resources and time significantly is, again, to
- 16 look outside of the current process. For example, the
- 17 FDA has a note to file process which eliminates the
- 18 need to submit every single piece of paper to the FDA.
- 19 Those changes to registration on the FDA side get
- 20 caught up in audits or future registration
- 21 submissions.
- We think the EPA could benefit from looking
- 23 at some of the FDA processes. This could be used, for
- 24 example, for notifications, non-notifications, supplier
- 25 changes on CSFs. Also, Canada has a monograph process

- 1 for antimicrobials where a particular active
- 2 ingredient has been studied for so long that claims to
- 3 be made without the need for data to be submitted to
- 4 the Agency when a product contains a specific active
- 5 at a predetermined level. So that could be also a
- 6 very useful process.
- 7 We also see the need for better clarity for
- 8 OECD and U.S. EPA GLP harmonization where studies could
- 9 be done at labs globally for a global company like
- ours that could be submitted to the EPA without the
- 11 need for doing additional testing.
- 12 Also, we'd like to see something about
- mutual recognition of data generated by published
- 14 antimicrobial efficacy methods for global product
- 15 registration without the need for additional EPA
- 16 review of the published methods. There are lots of
- 17 examples where this could save significant time and
- 18 resources on the Agency's part.
- 19 Then, finally, harmonization of federal EPA
- 20 reviews and California reviews, so not only is that a
- 21 federal savings, but it also saves times at the
- 22 states.
- So, again, we really see areas for
- 24 harmonization and efficiency at the Agency level to
- 25 help us with some of the other time line issues, you

- 1 know, processing of PRIA applications in a more
- 2 efficient and timely way, and hope that we can help in
- 3 that space. Thank you.
- 4 MS. GESALMAN: Thank you very much.
- 5 The next person on the list is Dave Tamayo.
- 6 Please unmute by pressing pound 6. Dave?
- 7 (No response.)
- 8 MS. GESALMAN: Okay, Mary Lamielle.
- 9 Are you on the line, Mary? Mary Lamielle. Press pound 6.
- 10 (No response.)
- 11 MS. GESALMAN: Okay, Karin North, please
- 12 press pound 6 to unmute.
- MS. NORTH: This is Karin North.
- 14 MS. GESALMAN: Great, hear you. Go ahead.
- 15 MS. NORTH: Hi, this is Karin North. I am
- 16 the watership protection manager for the city of Palo
- 17 Alto. I just wanted to comment and thank you so much
- 18 for allowing comments from California. But we
- 19 appreciate the Environmental Protection Agency's goals
- 20 to safeguard human health and the environment.
- 21 I'm giving a different perspective from the
- 22 regulated community wearing the stormwater and a
- 23 wastewater perspective. So, we actually need to make
- 24 sure that our waterways are safe from aquatic --

- 1 protect the environment and -- sorry, I've been up
- 2 since very early this morning -- but to protect the
- 3 environment and ensure that the aquatic organisms are
- 4 safe.
- 5 So, we actually rely heavily on the
- 6 Environmental Protection Agency's regulations on
- 7 pesticides to ensure that we don't have toxicity in
- 8 our wastewater that gets discharged out into the San
- 9 Francisco Bay, and also that we're not causing
- 10 Non-point source pollutant toxicity into stormwater. So,
- 11 we actually think that there needs to be more
- 12 regulations to improve and enhance the protection of
- 13 the aquatic organisms.
- 14 We also support the safeguarding of human
- 15 health. We really need you as a partner agency
- 16 because many things we're regulated on that we cannot
- 17 actually do anything. But we need EPA to help ensure
- 18 that the pesticides being applied are not going to
- 19 cause toxicity. The city also has an integrated pest
- 20 management policy, so we try and use the least toxic
- 21 pests obviously rather than the toxic ones.
- 22 Anyway, we will submit lengthy comments on
- 23 behalf of the stormwater and the waste water community
- 24 in Palo Alto. Thank you again.
- 25 MS. GESALMAN: Okay, thank you very much.

- 1 The last call for Carrie Hugo, Dave Tamayo,
- 2 or Mary Lamielle?
- 3 MR. TAMAYO: This is Dave Tamayo. Can you
- 4 hear me?
- 5 MS. GESALMAN: Yes, we can.
- 6 MR. TAMAYO: Oh, good. I finally figured
- 7 out how to get back to that screen.
- 8 Hi, I'm Dave Tamayo. I'm with the
- 9 California Stormwater Quality Association, otherwise
- 10 known as CASQA. I just wanted to thank you for this
- 11 opportunity and also say hello to many of the people I
- served with on PPDC for six years. Thank you for this
- 13 opportunity.
- 14 You know, as we've mentioned many times over
- 15 the last 20 years in commenting to EPA, the stormwater
- 16 agencies in California that represent and that serve
- 17 the vast majority of California residents have been
- saddled with the effects of currently registered
- 19 pesticides that are used in urban areas that impact
- 20 urban water quality.
- 21 Because it's observed throughout the state
- 22 and because we have obligations to comply with Clean
- Water Act permits, we've been saddled with costs for
- 24 monitoring, tracking registration activities, trying
- 25 to influence how pesticides are registered, and,

- 1 ironically, trying to convince consumers and licensed
- 2 users that they need to be more careful of how to use
- 3 beyond what the label requires to prevent water
- 4 quality impacts.
- 5 We learned early on in the process that both
- 6 consumers and licensed users rely on the assumption
- 7 that products that are registered by EPA and used the
- 8 way they're supposed to be used will be sufficiently
- 9 protective of the environment. Unfortunately, in many
- important cases in urban areas, that is not yet the
- 11 case.
- 12 I do want to acknowledge that EPA has made
- some significant efforts and improvements in that
- 14 area, but there's still some important areas that
- 15 would help reduce the regulatory burden and economic
- burden on local and state agencies here.
- 17 One is that EPA needs to implement the use
- of models and realistic model parameters that
- 19 adequately predict the fate and transport and impacts
- of urban use pesticides.
- 21 We also support the need to develop a more
- 22 efficient system for working through the requirements
- of the Endangered Species Act. An essential tool for
- that would be to require a set of aquatic toxicity
- 25 data that's robust enough to support a high level of

- 1 confidence among the various stakeholders that the
- 2 toxic effects are adequately identified, which would
- 3 lead to more rational registration decisions and
- 4 mitigation requirements that arise from that.
- 5 Finally, we want registration decisions to
- 6 include economic impacts on folks that are sort of
- downstream of the users. You know, we have some
- 8 direct clean water act economic impacts on both
- 9 state and local agencies. Those can be very
- 10 significant. It can cost between half a million and a
- million dollars to do one TMDL in a watershed area.
- 12 As I said, there's impasse throughout the state.
- 13 We also believe that the consideration of
- 14 underlying ecological effects that affect beneficial
- uses need to be part of the economic analysis that's
- done when making registration decisions. And if these
- things are done well and robustly enough, then that
- 18 would be an important part of achieving predictability
- 19 and consistency in regulation.
- 20 MS. GESALMAN: Thank you for your
- 21 comments.
- Is Carrie Hugo or Mary Lamielle on the phone?
- 23 Either one of you can press pound 6 to unmute.
- 24 (No response.)
- MS. GESALMAN: It sounds like that

- 1 concludes the telephone portion of this program.
- MR. KEIGWIN: Thanks, Claire. We did have a
- 3 couple of additional people sign up to speak that just
- 4 came to my attention. So, Dudley Hoskins from NASDA.
- 5 MR. HOSKINS: Thanks, Rick. I'm going to
- start my timer, so hopefully I won't go over three
- 7 minutes.
- First off, my name is Dudley Hoskins. I'm
- 9 with the National Association of State Departments of
- 10 Agriculture. Our members are the commissioners,
- 11 secretaries, and directors in all 50 states and four
- 12 territories. In 43 states, the state department of ag is
- 13 the lead FIFRA state agency. So, in short, we're
- regulatory partners with EPA. For us, it's a really
- 15 critical partnership, and we really appreciate both
- 16 the work here at OPP headquarters and the work that
- 17 goes on around the regions.
- So, NASDA will be submitting comments to the
- 19 docket, EO 1377. They will be more comprehensive and
- 20 hopefully more articulate than what I'm going to blast
- 21 through real quick right here. But just a few things
- 22 we wanted to touch on, put forth for the Agency to
- 23 hopefully consider some regulatory assistance on.
- 24 The first one is the certification and

- 1 training of pesticide applicators. I want to note
- 2 that at NASDA, we greatly appreciated all the work and
- 3 improvements that EPA invested into that rule. What
- 4 came out as the final regulation is something we were
- 5 very supportive of. There's probably one provision
- 6 there we'd like to work with the Agency on to see if
- 7 we can modify how that's written. But, by and large,
- 8 we really appreciate the work that went into that.
- 9 We've joined a couple other groups, AAPCO,
- 10 ASPCRO, and some of the regulated community in asking
- 11 EPA to extend the effective date of that rule. Just
- 12 by and large, states across the board, we have a lot
- of logistical resource and capacity challenges, and
- 14 additional time to work through this would be greatly
- 15 appreciated.
- 16
 I should have noted, as part of the NASDA
- 17 family, we have 23 affiliate organizations. Several
- 18 of those are represented here in the PPDC and work
- 19 closely with EPA. Both AAPCO, the American
- 20 Association of Pesticide Control Officials, ASPCRO,
- 21 the American Association of Structural Pesticide
- 22 Regulatory Officials, the National Plant Board, and
- 23 the Apiary Inspectors in America are all groups who
- 24 work closely around the FIFRA mission areas.
- I would like to thank Liza for her

- leadership on a number of these fronts, and Tim Creger
- from the Nebraska Department of Ag who called in.
- 3 Just quickly, under the Worker Protection
- 4 Standard, we have a request pending with the Agency
- 5 requesting additional time on the implementation of
- 6 that regulation. We would really appreciate EPA
- 7 considering that request.
- 8 In addition to needing more time around the
- 9 implementation, we would love to have the opportunity
- 10 to revisit a few specific provisions in that rule
- 11 around the designated representative and the
- 12 application exclusion zone. Both of those, for our
- purposes, are really challenging to better understand
- and assist with compliance assistance, education
- 15 enforcement components.
- 16 I'm over time, I'm sorry. I just wanted to
- 17 mention, on the pollinator front, I really appreciate
- 18 all the great work that OPP has done and the
- 19 leadership that you all have invested in that in the
- 20 state managed pollinator protection plans. I really
- look forward to working with you all to stand those
- 22 up.
- A robust, well-funded, and fully staffed OPP
- is something that NASDA is very supportive of, and we
- 25 really appreciate the work you all do. Thank you for

- 1 the opportunity to comment.
- 2 MR. KEIGWIN: Are there others in the room
- 3 who haven't had an opportunity to speak? Please come
- 4 sit by the microphone and identify yourself.
- 5 MS. BADEN-MAYER: My name is Alexis Baden-
- 6 Mayer. I'm the political director of the Organic
- 7 Consumers Association.
- 8 This is not a normal EPA hearing. We're
- 9 here today because Trump and Pruitt have invited the
- 10 companies that sell toxic pesticides to tell the EPA
- 11 which regulations to get rid of. It's not normal, and
- 12 it's not legal. The EPA's Office of Pesticide
- 13 Programs has the duty to preserve and enforce the laws
- 14 Congress passed to protect human health and the
- 15 environment.
- 16 Chemicals found in plastic bottles, flame
- 17 retardants, metal food cans, detergents, cosmetics,
- and pesticides cost the U.S. more than \$340 billion a
- 19 year in health costs and lost earnings.
- Organophosphate pesticides are associated with 1.8
- 21 million lost IQ points and 7,500 cases of intellectual
- 22 disability in the U.S. each year, at an estimated cost
- of \$44.7 billion dollars. Economic and social costs of
- 24 pesticide exposure are devastating.
- 25 Harmful chemicals should be banned, not

- 1 deregulated. The EPA must put American's health above
- 2 Dow Chemical's wealth. The EPA must protect us. Don't
- 3 let Trump make us sicker so that his corporate donors
- 4 can get richer. Trump is America's first billionaire
- 5 president. Corporations are seeing an unprecedented
- 6 opportunity to merge their power with the government.
- 7 As Senator Sheldon Whitehouse said recently,
- 8 while Trump is president, the various checks and
- 9 balances of the American system must do their part to
- 10 check Trump and corporate influence. Senator
- 11 Whitehouse said, "If it fails, this could be Mussolini
- 12 time in America, and that would not be good."
- 13 On the that would not be good side is Dow
- 14 Chemical. In Trump's first three months, Dow Chemical
- 15 spent \$5.2 million dollars on lobbying, making it the seventh
- 16 biggest spender among all corporations by influence in
- 17 Washington. At \$13.5 million dollars a year, or actually in
- 18 2016, sorry, Dow's lobbying expenditures topped all of
- 19 its competitors, including Bayer, DuPont, Monsanto,
- 20 and Syngenta. Dow also donated \$1 million dollars to Trump's
- 21 inauguration.
- 22 Being a big spender has given Dow
- extraordinary access to the administration. CEO
- 24 Andrew Liveris was appointed to head a
- 25 White House manufacturing council. After Trump signed

- 1 the executive order to roll back regulations, he
- 2 handed the pen to Liveris.
- 3 Greasing palms is just the cost of doing
- 4 business for Dow, and a relatively minor one. The
- 5 company reported \$888 million dollars in net income for the
- 6 first quarter of 2017 in its April 27th earning
- 7 statement. Money talks; children's health walks.
- 8 Under Obama, Dow was going to have to stop
- 9 selling chlorpyrifos, a pesticide that inhibits brain
- 10 development with effects ranging from lower IQ rates
- 11 to autism. But, under Trump, the decision was
- 12 reversed. We cannot have the health of future
- 13 generations stripped from us just so that Dow can meet
- 14 its short term profit goals. The employees of the EPA
- 15 must resist Trump before it is too late. We cannot
- let Trump get rid of regulations to protect human
- 17 health from toxic pesticides.
- 18 Unfortunately, the merger of corporate and
- 19 government power at the EPA did not begin with Trump.
- 20 Through a lawsuit on behalf of glyphosate exposed
- 21 cancer victims, we learned that Anna Lowit,
- 22 currently at the Office of Pesticide Programs --
- MR. KEIGWIN: Time.
- MS. BADEN-MAYER: -- was accused by a
- 25 colleague of intimidating EPA scientists --

- 1 MR. KEIGWIN: I'm sorry.
- 2 MS. BADEN-MAYER: -- and changing the
- 3 outcome of EPA reviews to favor companies like
- 4 Monsanto. My request to all current EPA employees is
- 5 this. Leave the laws that Congress passed to protect
- 6 human health and the environment and enforce them.
- 7 Resist Trump's arbitrary and capricious edicts. He is
- 8 not a dictator yet. We still have regulatory agencies
- 9 staffed by scientists and qualified professionals. Do
- 10 your job. Speak out. Blow the whistle if you have
- 11 to. The future of butterflies, bees, and babies
- 12 depend on you.
- 13 UNIDENTIFIED FEMALE: I'm so sorry, but
- we've reached the end of your time.
- 15 MR. KEIGWIN: Are there any other speakers
- 16 in the room?
- 17 (No response.)
- 18 MR. KEIGWIN: Peter, I think you had wanted
- 19 to finish your remarks, so you can come forward.
- MR. JENKINS: After the last speaker's eloquence,
- 21 mine is a bit more mundane. Again, I'm trying to see
- the questions that were in the EPA's announcement and
- 23 identify useful questions that were raised. So, one
- of them was, which regulations are based on data,
- 25 information or methods that are not publicly available

- or that are insufficiently transparent. I think we'll
- 2 be able to identify a number of such regulations.
- 3 But the one that I'm going to focus on here
- 4 is really an obscure one but really an important one.
- 5 It's 50 CFR 158.400(e)(1), really buried in your
- 6 regulations. It's one that says that for pesticide
- 7 applicants, people that are trying to get approval for
- 8 a new registration, it says the Agency has waived the
- 9 requirement to submit product performance data, with a
- 10 few exceptions. Agency is not requiring product
- 11 performance data.
- 12 I don't know when that was implemented. I
- think it was about 10 or 15 years ago, but the Agency
- 14 used to require transparency about product performance
- 15 so people could FOIA that and we could have access to
- 16 whether these products really worked as claimed. But
- 17 the Agency no longer requires that.
- 18 Well, the most absurd result of that is that
- 19 with respect to insecticide seed coatings on soybean
- seeds, in 2015, EPA did a detailed, costly, public
- 21 paid benefits assessment and determined that actually
- seed coatings on soybeans provided no benefits to
- farmers on the whole, very little, if any, was, I
- think, the exact words from EPA's assessment.
- 25 It's been backed up by several other

- 1 independent assessments, including one by the Center
- for Food Safety. So, that was 15 years after it first
- 3 allowed seed coatings to go onto soybean seeds, or at
- 4 least 12 years after. So, we, as a nation,
- 5 experienced 10 or 15 years of these products that
- 6 actually provide no benefit because of this obscure
- 7 regulation that allowed the applicant to not have to
- 8 provide performance data. Do you see what I'm getting
- 9 at?
- 10 So, cost benefit analysis is part of what
- 11 the Trump executive order is asking for. It's good
- 12 business to be cost beneficial. So, the Agency should
- not be allowing pesticide products to go into the
- 14 market that provide no ultimate benefit to the users.
- 15 So, the farmers are getting ripped off. It's a big
- 16 consumer protection scandal in my opinion, for the
- farmers are getting ripped off by these products.
- 18 We, as environmentalists, as bird lovers, as
- 19 beekeeper supporters, are getting harmed by the side
- 20 effects of these products. So, that's the end of my
- 21 comments. Thank you.
- MR. KEIGWIN: Are there any other commenters
- in the room?
- 24 (No response.)
- 25 MR. KEIGWIN: Bill, I know you had wanted to

- 1 say a little bit more as well.
- 2 MR. JORDAN: Thank you. My name is Bill
- 3 Jordan.
- I just want to take a moment to say that I
- 5 know two of the individuals who have been mentioned,
- 6 Jess Rowland and Anna Lowit, as employees of EPA whose
- 7 integrity has been challenged in comments made this
- 8 morning. I know both of them well, and I think those
- 9 comments are completely unfounded.
- Those two individuals, like many, many, many
- 11 other people who work in the Office of Pesticide
- 12 Programs, maintain a high standard of integrity,
- 13 competence, and commitment to the work of the Agency.
- 14 It is disrespectful and shameful, in my opinion, to
- 15 criticize them in that manner.
- MR. KEIGWIN: I think I see one last
- 17 commenter.
- 18 MS. WALKER: Hi, I'm Larissa Walker and I'm with
- 19 the Center for Food Safety. I wanted to provide a quick
- 20 comment today to stress the importance of EPA's mandate
- 21 to protect human health and the environment and encourage
- 22 EPA to uphold and strengthen many of the key regulations that
- are intended to support the Agency's core mission,
- regulations that protect farmworkers, as we heard

- 1 today, children, pregnant women, vulnerable
- 2 communities, endangered species, pollinators, our
- 3 water, our air, and the broader environment, all of
- 4 which are threatened by the rampant use of toxic
- 5 pesticides, pesticides that EPA is obligated to
- 6 protect against unreasonable adverse harm from.
- 7 So, I want to echo many of the important
- 8 comments today made by my colleagues and urge EPA to
- 9 uphold its commitment to human health and the
- 10 environment and not weaken or completely throw away
- 11 critical regulations that protect us against serious
- 12 harms from pesticides. Thank you.
- 13 MR. KEIGWIN: Thank you. I think I see one
- 14 more hand here, if you want to come up to the
- 15 microphone. Please introduce yourself.
- 16 MR. PETERS: Hello, my name is Joshua Peters
- 17 (phonetic). I'm not with any agency. I'm a former
- 18 school teacher of 13 years. As part of my training, I
- 19 traveled to different countries. In 1996, I was in
- 20 Guatemala. I visited many of the outlying areas
- 21 around the capital. In a place that was just coming
- out of a really tumultuous period, there was very
- 23 little regulation.
- 24 A scene that has always stuck out in my
- 25 memory was playing soccer with a group of what I

- 1 thought were children all around my hip height -- me
- being a short person, that's not very tall -- only to
- 3 find out that these were children in their 20s and who
- 4 have all been victims of rampant dumping of chemical
- 5 waste and toxicity.
- I've always looked towards the EPA as an
- 7 agency that ultimately has humanity's best interest at
- 8 heart. The son of a physicist who spent his last 15
- 9 years working for NOAA and a family generally
- 10 committed towards working towards human good, I'd
- 11 hoped that this organization had the wherewithal and
- 12 character to stand up for what is scientifically
- correct and morally right for the United States
- 14 population.
- 15 MR. KEIGWIN: One last call for speakers in
- 16 the room.
- 17 (No response.)
- MR. KEIGWIN: All right, thank you for all
- of you who participated today. This closes our public
- 20 comment session of the PPDC meeting.
- Just to wrap things up, as far as it goes
- for the PPDC meeting, just a reminder that the public
- 23 comment period on the executive order and the
- 24 implementation here at EPA closes on May 15th of this
- 25 year.

- 1 As we mentioned at the beginning of the 2 meeting, there will be a transcript available from 3 this morning's discussion, available on the PPDC website within the next couple of weeks. 5 As I mentioned yesterday, we have just 6 completed a new membership drive for the Pesticide 7 Program Dialogue Committee. We'll soon be reviewing 8 the nominations that came forward and making a 9 recommendation internally through the Agency. Over 10 the next few months, we will be announcing the 11 reconstituted membership of the Pesticide Program 12 Dialogue Committee. 13 For all of you, the next PPDC meeting is scheduled for November 1st and 2nd of this year.
- 14 15 Then, before we conclude, I just want to 16 give several mentions of thanks, first to the PPDC

18 dialogue yesterday, and I think we got some valuable

members for all of your efforts. We had a great

input from you all as we think about how we advance

20 some of the issues that we brought to you.

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And for the members of the PPDC who have been term limited, I really want to thank you for your dedication over the last six years. We get a lot out of the work that you all do, and we know that you have other jobs that you're doing. So, squeezing in the

- 1 time to provide input to us is invaluable. So, thank
- 2 you for that.
- 3 I also really want to thank Dea Zimmerman
- for all of her help. When we learned of the need to
- 5 hold the public meeting regarding the executive order
- 6 and we scrambled given the time frame that we had, we
- 7 knew we had this opportunity to PPDC. Rather than
- 8 seeing it as a challenge, Dea just really ran with it.
- 9 I think she spent about three or four Monday mornings
- 10 with us, calling in from Chicago, while we were all
- 11 trying to figure out how do we do this. She had the
- 12 clarity of sight to kind of figure it out and get it
- done right and pull together really an army of people
- 14 from across the Office of Pesticide Programs to get
- this to run as smoothly as it did. So, I just want to
- 16 thank Dea personally.
- 17 We also got a lot of assistance from our
- 18 colleagues in Office of Land and Emergency Management
- in terms of trying to figure how to run today's
- 20 meeting in particular and how to get as many of you in
- 21 the room as possible, how to run the phone lines. We
- 22 couldn't have pulled this off without the efforts of
- 23 our sister office. So, thank you to our OLEM colleagues
- 24 as well.
- 25 And then, again, thank you to all of you for

Τ	partio	cipat	ing.	This	S C	oncli	iaes	tne	PPDC	meet	ing
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1	CERTIFICATE OF TRANSCRIPTIONIST
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3	I, Marilynn H. McNulty, do hereby certify
4	that the foregoing transcription was reduced to
5	typewriting via audiotapes provided to me; that I am
6	neither counsel for, related to, nor employed by any
7	of the parties to the action in which these
8	proceedings were transcribed; that I am not a relative
9	or employee of any attorney or counsel employed by the
10	parties hereto, nor financially or otherwise
11	interested in the outcome of the action.
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15	MARILYNN H. McNULTY
16	Transcriptionist
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